

List of All Chemicals

P Morus alba (Moraceae)

Common name(s)

Sang-Pai-Pi; White Mulberry

How used

Food

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Chemical | Plant Part | Low PPM | High PPM | StdDev | *Reference |
|---------------------------------------|--|---------|----------|--------|------------|
| 2,4,4',6-TETRAHYDROXYBENZOPHENONE | Wood | -- | -- | | * |
| 3,2',4'-TRIHYDROXYDIHYDROSTILBENE | Wood | -- | -- | | * |
| 3,4'-DIHYDROXYDIHYDROSTILBENE | Wood | -- | -- | | * |
| 5,7-DIHYDROXYCHROMONE | Plant | -- | -- | | * |
| Activities (4) | | | | | |
| Antibacterial | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | | | | |
| Herbicide IC100=6 mM | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. | | | | |
| Pesticide | | | | | |
| 6,3',5'-TRIHYDROXY-2-PHENYLBENZOFURAN | Wood | -- | -- | | * |
| A-BETA-HEXENAL | Leaf | -- | -- | | * |
| ACETIC-ACID | Leaf | -- | -- | | * |
| Activities (16) | | | | | |
| Acidulant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Antibacterial 5,000 ppm | | | | | |
| Antitotic | Martindale's 28th | | | | |
| Antisalmonella | | | | | |
| Antivaginitic 1-2% | | | | | |
| Expectorant | Martindale's 28th | | | | |
| Fungicide | Martindale's 29th | | | | |
| Keratitogenic | | | | | |
| Mucolytic | Martindale's 29th | | | | |
| Osteolytic | | | | | |
| Perfumery FEMA 6,000-40,000 ppm | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |
| Protisticide | Martindale's 29th | | | | |
| Spermicide | Martindale's 28th | | | | |
| Ulcerogenic | HerbalGram No. 20, page 9. | | | | |
| Verrucolytic | | | | | |
| ACETONE | Leaf | -- | -- | | * |
| Activities (3) | | | | | |
| Allergenic | | | | | |
| CNS-Depressant | Martindale's 29th | | | | |
| Narcotic | Martindale's 29th | | | | |
| ADENINE | Leaf | -- | -- | | * |
| Activities (11) | | | | | |
| Antianemic 1.5 g/day | Martindale's 28th | | | | |
| Antigranulocytopenic | | | | | |
| Antiviral | | | | | |
| CNS-Stimulant | | | | | |

Drugs

| | |
|----------------|---|
| Hyperuricemic | Martindale's 28th |
| Insectifuge | Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in Achillea millefolium L. (Asteraceae). Economic Botany 48(2): 111-120, 1994. |
| Lithogenic | |
| Myocardiotonic | |
| Pesticide | |
| Vasodilator | |

ALBAFURAN-C

Plant -- -- *

ALBANIN-F

Plant -- -- *

ALBANIN-G

Plant -- -- *

ALBANOL-A

Plant -- -- *

Activities (2)Aromatase-Inhibitor IC50=7.5 μ M

Hypotensive Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

ALBANOL-B

Plant -- -- *

ALPHA-AMYRIN

Root Bark -- -- *

Activities (10)

Analgesic

Antiedemic IC43=40 mg/kg ipr rat

Antiinflammatory IC71=1,000 ppm orl

Antinociceptive

Antitumor

Antiulcer

Cytotoxic 50-400

Gastroprotective

Hepatoprotective

Insectifuge

ALPHA-BETA-DIMONTANY-GLYCEROL

Plant -- -- *

ALUMINUM(AL2O3)

Leaf 8000.0 18000.0 *

ARACHIDONIC-ACID

Seed -- -- *

Activities (12)

5-Alpha-Reductase-Inhibitor

Antidermatitic Merck 11th Edition

Antieczemic Merck 11th Edition

Antileukotriene-B4

Antipsoriatic Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Cancer-Preventive

Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Coagulant

Hepatoprotective

Immunostimulant

Insulinogenic

Economic & Medicinal Plant Research, 6: 170.

Myocontractant

Pyrogenic 100 ug/kg rbt Kandasamy, S. B. 1977. Central Effect of 5,8,11,14-eicosatetraenoic Acid (Arachidonic Acid) on the Temperature in the Conscious Rabbit. Experientia, 33: 1626.

ARSENIC

Root Bark -- 0.1 -0.6 *

Activities (2)

Anorexic Forest H. Nielsen, USDA, Grand Forks, various publications.

Pesticide

ASCORBIC-ACID

Leaf 2000.0 3000.0 -0.17 *

Activities (112)

Acidulant FEMA 6,000 Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry

Aldose-Reductase-Inhibitor Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reverse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

| | |
|---|---|
| Angiotensin-Receptor-Blocker | |
| AntiAGE 2,000 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance.</i> John Wiley & Sons, New York. 272 pp. \$24.95 |
| AntiCFS 500-1,000 mg | |
| AntiCTS 1,000 mg 3x/day | |
| AntiCrohn's 50-100 mg/day/orl/man | Martindale's 29th |
| AntiLyme 500-2,000 mg | |
| AntiRaynaud's 500 mg 1-2x/day | |
| Antiaggregant | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance.</i> John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiaging 400 mg/day | |
| Antiallergic | |
| Antialzheimeran 2,000-6,000 mg/day | |
| Antiarthritic 0.2-1 g/day | |
| Antiasthmatic 1,000 mg/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Antiatherosclerotic | |
| Antibacterial | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Anticataract 350 mg/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Anticataract 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance.</i> John Wiley & Sons, New York. 272 pp. \$24.95 |
| Anticataract 1 g 3x/day | |
| Anticervicaldysplastic 1,000-2,000 mg/day | |
| Anticlimacteric 500-5,000 mg/day | |
| Anticold 1-2 g/man/day | |
| Antidecubitic 500 mg/man/2x/day | Martindale's 28th |
| Antidementia | |
| Antidepressant 2,000 mg/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Antidiabetic | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance.</i> John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antidote (Aluminum) | Economic & Medicinal Plant Research, 6: 189. |
| Antidote (Cadmium) | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antidote (Lead) | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antidote (Paraquat) | Martindale's 28th |
| Antieczemic 3.5-5 g/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Antiedemic 1 g/man/day | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antiencephalitic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antiendometrotic 2,000 mg/day | |
| Antifatigue 500-1,000 mg | |
| Antifibrotic 1,000-2,000 mg | |
| Antigallstone 1,000-3,000 mg/day | |
| Antigastritic | |
| Antigingivitic | |
| Antiglaucomic 2 g/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Antihangover 1,000 mg | |
| Antihemorrhagic 1 g/man/day | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antihepatitic 2-6 g/man/day | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antihepatotoxic | Economic & Medicinal Plant Research, 6: 189. |
| Antiherpetic 1-5 g/day | |
| Antihistaminic 2 g/day orl man | |
| Antihypertensive | |
| Antiinfertility 1 g/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Antiinflammatory | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antileptic 1.5 g/man/day | Martindale's 28th |
| Antilithic 1,000-3,000 mg/day | |
| Antimaculitic | |
| Antimeasles | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antimenopausal 500-5,000 mg/day | |
| Antimigraine | Martindale's 29th |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antineuramidase | |
| Antinitrosic 1 g/man/day | Martindale's 28th |
| Antiobesity 1 g 3x/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Antiorchitic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antosteoarthritis 1 g 2x/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |

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|--|--|
| Antioxidant 100 ppm | |
| Antiparkinsonian 1 g 2-3x/day | |
| Antiparotitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiperiodontitic 1 g 2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antipseudomonas | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antipodriac | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antipoliomyelitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antipyretic | Economic & Medicinal Plant Research, 6: 189. |
| Antiradicular | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiretinotic | |
| Antirheumatic | |
| Antirhininitic 1,000 mg 3x/day | |
| Antiscorbutic 10 mg/man/day | Martindale's 28th |
| Antiseptic MIC=3.3-217 mg/ml | Martindale's 28th |
| Antiseptic 4-8 g/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antishingles | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antispasmodic 500-5,000 mg/day | |
| Antistress 500-1,000 mg | |
| Antisyndrome-X 1-4 g/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antitumor (Gastric) | |
| Antitumor (Lung) | |
| Antiulcer | |
| Antiviral 1-5 g/day | |
| Apoptotic 1-10 mM | |
| Asthma-preventive 1,000 mg/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Beta-Adrenergic Receptor Blocker | |
| Beta-Glucuronidase-Inhibitor 1.5 g/day/man | |
| Calcium-Antagonist | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardioprotective | |
| Cold-preventive 1-2 g/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Collagenic | |
| Detoxicant | |
| Diuretic 700 mg/man/orl | |
| Fistula-Preventive | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Hypocholesterolemic 300-1,000 mg/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Hypoglycemic | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Hypotensive 1,000 mg/man/day | |
| Immunomodulator | |
| Immunostimulant | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Interferonogenic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Lithogenic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Mucolytic 1 g/woman/day | Martindale's 28th |
| Pesticide | |
| Uricosuric 4 g/man/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Urinary-Acidulant | Martindale's 29th |
| Vasodilator | |
| Vulnerary | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |

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|------------------------------|---|------|--------|-------|---|
| ASCORBIC-ACID | Fruit | 50.0 | 1040.0 | -0.22 | * |
| Activities (112) | | | | | |
| Acidulant FEMA 6,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Aldose-Reductase-Inhibitor | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reservse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 | | | | |
| Analgesic 5-10 g/day | | | | | |
| Angiotensin-Receptor-Blocker | | | | | |
| AntiAGE 2,000 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reservse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 | | | | |
| AntiCFS 500-1,000 mg | | | | | |
| AntiCTS 1,000 mg 3x/day | | | | | |

mg/day/Oral

| | | |
|------------------------|--------------------|--|
| AntiLyme | 500-2,000 mg | |
| AntiRaynaud's | 500 mg 1-2x/day | |
| Antiaggregant | | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiaging | 400 mg/day | |
| Antiallergic | | |
| Antialzheimeran | 2,000-6,000 mg/day | |
| Antiarthritic | 0.2-1 g/day | |
| Antiasthmatic | 1,000 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
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| Antibacterial | | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
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| Anticervicaldysplastic | 1,000-2,000 mg/day | |
| Anticlimacteric | 500-5,000 mg/day | |
| Anticold | 1-2 g/man/day | |
| Antidecubitic | 500 mg/man/2x/day | Martindale's 28th |
| Antidementia | | |
| Antidepressant | 2,000 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antidiabetic | | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
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| Antiencephalitic | | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antienzyme | 2,000 mg/day | |
| Antifatigue | 500-1,000 mg | |
| Antifibrotic | 1,000-2,000 mg | |
| Antigallstone | 1,000-3,000 mg/day | |
| Antigastritic | | |
| Antigingivitic | | |
| Antiglaucomic | 2 g/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antihangover | 1,000 mg | |
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| Antihepatotoxic | | Economic & Medicinal Plant Research, 6: 189. |
| Antiperitic | 1-5 g/day | |
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| Antihypertensive | | |
| Antiinfertility | 1 g/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
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| Antineuramidase | | |
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| Antiobesity | 1 g 3x/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antiorchitic | | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antosteopathitic | 1 g 2x/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antosteoporotic | 500 mg/day | |
| Antioxidant | 100 ppm | |
| Antiparkinsonian | 1 g 2-3x/day | |
| Antiparotitic | | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antiperiodontic | 1 g 2x/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |

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| Antipyretic | Economic & Medicinal Plant Research, 6: 189. |
| Antiradicular | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
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| Beta-Glucuronidase-Inhibitor 1.5 g/day/man | |
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| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
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| Cold-preventive 1-2 g/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
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| Pesticide | |
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| Vasodilator | |
| Vulnerary | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |

| | | | | | |
|----------------|-------|---------|----------|-----|---|
| ASH | Leaf | 80000.0 | 204000.0 | 1.5 | * |
| ASH | Fruit | 7000.0 | 72000.0 | 0.4 | * |
| ASPARAGIC-ACID | Leaf | -- | -- | | * |
| ASTRAGALIN | Leaf | -- | -- | | * |

Activities (7)

ACE-Inhibitor ID50=180 ug/ml rat (24 hr.)

Aldose-Reductase-Inhibitor IC30=1 uM

Aldose-Reductase-Inhibitor IC62=10 uM Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. *Phytochemistry*, 23: 1885-1888.

Antileukemic

Expectorant

Hypotensive Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. *Chem. Pharm. Bull.* 38(4): 1049-1052, 1990.

Immunostimulant

BENZALDEHYDE

Plant

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Activities (24)

| | |
|------------------------------------|---|
| Allergenic | |
| Anesthetic | |
| Antibacterial | |
| Anticancer | |
| Antimutagenic | |
| Antipeptic | |
| Antiseptic | |
| Antispasmodic | |
| Antitumor | |
| Candidicide | |
| FLavor FEMA 150-800 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Immunostimulant | |
| Insecticide | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Insectifuge 50 ppm | J. Stored. Prod. Res., 22:141, 1986. |
| Motor-Depressant | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Narcotic | Merck 11th Edition |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Pesticide | |
| Sedative | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Termiticide LD100=5 mg/g | |
| Tyrosinase-Inhibitor ID50=820 uM | |
| Tyrosinase-Inhibitor ID50=87 ug/ml | |
| Tyrosinase-Inhibitor ID50=0.82 mM | |
| Tyrosinase-Inhibitor ID50=830 uM | |

BETA-AMYRIN

Root Bark

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Activities (9)

| | |
|----------------------------------|--|
| Analgesic | |
| Antiedemic IC27=40 mg/kg ipr rat | |
| Antiinflammatory | |
| Antinociceptive | |
| Antiulcer | |
| Gastroprotective | |
| Hepatoprotective | |
| Larvicide | |
| Mosquitocide | |

BETA-CAROTENE

Fruit

1.0

8.0

-0.14

*

Activities (53)

| | |
|----------------------------------|--|
| Allergenic | |
| Androgenic? | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| AntiPMS | |
| Antiacne | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiaging | |
| Antiarthritic | |
| Antiasthmatic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticancer | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Anticarcinomic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticervicaldysplastic | |
| Anticorony 50 mg/man/2 days | |
| Antihyperkeratotic | |
| Antiichthythic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antileukoplakic | |
| Antilipoperoxidant IC71=50 ug/ml | |
| Antilupus 150 mg/man/day/2 mos | Martindale's 28th |

| | |
|------------------------------------|--|
| Antimastitic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antioxidant | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiozenic | |
| Antipapillomic | |
| Antiphoto phobic 30-300 mg/man/day | Martindale's 29th |
| Antipityriasic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiporphyric 30-300 mg/man/day | Martindale's 28th |
| Antiproliferant | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Antipsoriac | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiradicular | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antirheumatic | |
| Antistress | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antitumor | Simon, P.W. Carrots and Other Horticultural Crops as a Source of Provitamin A Carotenes. HortScience, 25(12): 1495, 1990. |
| Antitumor (Breast) IC45=60 ug/ml | |
| Antitumor (CNS) IC43=45 ug/ml | |
| Antitumor (Colon) IC43=45 ug/ml | |
| Antitumor (Lung) IC30=60 ug/ml | |
| Antitumor (Prostate) | |
| Antitumor (Stomach) IC26=45 ug/ml | |
| Antiulcer 12 mg 3x/day/man/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer 15,000-25,000 IU/day | |
| Antixerophthalmic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| COX-1-Inhibitor IC78=50 ug/ml | |
| COX-2-Inhibitor IC82=50 ug/ml | |
| Cancer-Preventive 22 ppm | Jim Duke's personal files. |
| Chemopreventive | |
| Colorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Gastroprotective | |
| Immunostimulant 180 mg/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Interferon-Synergist | |
| Mucogenic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Phagocytotic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Prooxidant 20 ug/g | |
| Thymoprotective | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Ubiquiot | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

BETA-ECDYSTERONE

Leaf -- 1.0 *

Activities (2)

Analgesic
Antineuragic

BETA-GAMMA-HEXENOL

Leaf -- -- *

BETA-RESORCYLALDEHYDE

Wood -- -- *

BETA-SITOSTEROL

Leaf -- 2000.0 0.0 *

Activities (47)

| | |
|-------------------------------|---|
| Androgenic | |
| Angiogenic | |
| Anorexic | Martindale's 28th |
| Antiadrenomic | Merck 11th Edition |
| Antiandrogenic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antibacterial | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Anticancer (Breast) | Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103. |
| Anticancer (Cervix) | |
| Anticancer (Lung) | |
| Antiedemic IC54=320 mg/kg orl | |
| Antiestrogenic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Antifertility | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antigonadotropic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |

| | |
|--|---|
| Antiinflammatory | |
| Antileukemic | |
| Antilymphomic | |
| Antimutagenic 250 ug/ml | |
| Antiphidic 2.3 mg mus | Economic & Medicinal Plant Research, 5: 363. |
| Antioxidant IC44=10 uM | |
| Antiprogestational | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antiprostaglandin 30 mg/day/12 wks | |
| Antiprostatadenomic | Merck 11th Edition |
| Antiprostatic 10-20 mg 3 x/day/orl man | |
| Antipyretic | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. |
| Antitumor (Breast) | Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103. |
| Antitumor (Cervix) | |
| Antitumor (Lung) | |
| Antiviral | Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . Plant Science, 75: 161-165, 1991. |
| Apoptotic | |
| Artemicide LC50=110 ppm | Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . Phytochemistry. 29(5): 1667-1670. 1990. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Caspase-8-Inducer | |
| Estrogenic | |
| Febrifuge | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. |
| Gonadotrophic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Hepatoprotective | |
| Hypocholesterolemic 2-6 g/man/day/orl | Martindale's 30th |
| Hypocholesterolemic 9-3,330 mg/man/day/orl | Martindale's 28th |
| Hypoglycemic | Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. Journal of Ethnopharmacology, 27: 243-275, 1989. |
| Hypolipidemic 2-6 g/day | |
| Pesticide | |
| Spermicide | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Ubiquiot | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Ulcerogenic 500 mg/kg ipr rat | |

BETA-SITOSTEROL-BETA-D-GLUCOSIDE

Plant -- -- *

Activities (4)

Antileukemic

Antispasmodic =ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 20 mg/kg pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp

Antitumor

Hypoglycemic Economic & Medicinal Plant Research, 6: 158.

BETULINIC-ACID

Root Bark -- 150.0 -0.91 Jim Duke's personal files.

Activities (22)

Anthelmintic

AntiHIV EC50=2.0 ug/ml Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.

AntiHIV IC50=6.5 ug/ml

AntiHIV 14.8 uM

Antibacterial

Anticancer Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Anticarcinomic

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antiedemic

Antiinflammatory Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from *Diospyros leucomelas**. Planta Medica, 61: 9.

Antileukemic

Antimalarial IC50=19-26 ug/ml

Antimelanomic New York Times, 3/28/95.

Antinociceptive

Antiplasmodial IC50=19-26 ug/ml

| | |
|---|---|
| Antiviral 14.8 uM | |
| Apoptotic | |
| Cytotoxic 50-100 ppm | Biosyn. Prod. Cancer Chemotherapy (Petit et al) |
| Cytotoxic 16.4 uM | |
| Phospholipase-A2-Inhibitor | |
| Prostaglandin-Synthesis-Inhibitor 200 ug/ml | Dunstan, C. A., Liu, B., Welch, C. J., Perera, P., Bohlin, L. 1998. Alphitol, a Phenolic Substance from <i>Alphitonia zizyphoides</i> which Inhibits Prostaglandin Biosynthesis in vitro. <i>Phytochemistry</i> , 48(3): 495-497. |
| Prostaglandin-Synthesis-Inhibitor IC50=101 uM | Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from <i>Menyanthes trifoliata</i> L. <i>Yao Hsueh Hsueh Pao</i> , 30(8): 621-626. |

BETULINIC-ACID Bark -- 1800.0 -0.46 Jim Duke's personal files.

Activities (22)

| | |
|---|---|
| Anthelmintic | |
| AntiHIV EC50=2.0 ug/ml | Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. <i>J. Nat. Prod.</i> , 61 (9): 1090-1095. |
| AntiHIV IC50=6.5 ug/ml | |
| AntiHIV 14.8 uM | |
| Antibacterial | |
| Anticancer | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Anticarcinomic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antiedemic | |
| Antiinflammatory | Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from <i>Diospyros leucomelas</i> *. <i>Planta Medica</i> , 61: 9. |
| Antileukemic | |
| Antimalarial IC50=19-26 ug/ml | |
| Antimelanomic | New York Times, 3/28/95. |
| Antinociceptive | |
| Antiplasmoidal IC50=19-26 ug/ml | |
| Antitumor | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antiviral 14.8 uM | |
| Apoptotic | |
| Cytotoxic 50-100 ppm | Biosyn. Prod. Cancer Chemotherapy (Petit et al) |
| Cytotoxic 16.4 uM | |
| Phospholipase-A2-Inhibitor | |
| Prostaglandin-Synthesis-Inhibitor 200 ug/ml | Dunstan, C. A., Liu, B., Welch, C. J., Perera, P., Bohlin, L. 1998. Alphitol, a Phenolic Substance from <i>Alphitonia zizyphoides</i> which Inhibits Prostaglandin Biosynthesis in vitro. <i>Phytochemistry</i> , 48(3): 495-497. |
| Prostaglandin-Synthesis-Inhibitor IC50=101 uM | Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from <i>Menyanthes trifoliata</i> L. <i>Yao Hsueh Hsueh Pao</i> , 30(8): 621-626. |

BIOTIN

Leaf -- -- *

Activities (4)

| | |
|----------------------------|--|
| Antialopellic | |
| Antidermatitic 3 mg/2x/day | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antineuronal | |
| Antiseborrheic 3 mg/2x/day | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |

BUTYL-ALCOHOL

Plant -- -- *

Activities (2)

| | |
|----------------|--------------------|
| CNS-Depressant | Martindale's 29th |
| Dermatitogenic | Merck 11th Edition |

BUTYLAMINE

Leaf -- -- *

CAFFEIC-ACID

Plant -- -- *

Activities (102)

| | |
|--|---|
| Aldose-Reductase-Inhibitor 4 ug/ml (weak activity) | Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. <i>Sankyo Kenkyusho Nempo</i> , 43: 99-110. |
| Allergenic | |
| Analgesic | |
| AntiHIV EC50=200 ug/ml | |
| AntiLegionella | |
| Antiadenooviral | Economic & Medicinal Plant Research, 5: 207. |
| Antiaggregant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |

| | |
|---|---|
| Antitherapeutic | Economic & Medicinal Plant Research, 6: 189. |
| Antibacterial | |
| Anticancer | |
| Anticarcinogenic | |
| Antidepressant | |
| Antiedemic | |
| Antilastase IC50=93 um/l | Economic & Medicinal Plant Research, 6: 189. |
| Antilastase IC50=86 ug/ml (475 uM) | |
| Antischerichic | |
| Antiflu | Economic & Medicinal Plant Research, 5: 207. |
| Antigonadotropic | Jim Duke's personal files. |
| Antihemolytic 25 uM | Ohnishi, M., Morishita, H., Iwahashi, H., Toda, S., Shirataki, Y., Kimura, M., and Kido, R. 1993. Inhibitory Effects of Chlorogenic Acids on Linoleic Acid Peroxidation and Haemolysis. <i>Phytochemistry</i> . 36(3): 579-583. 1994. |
| Antihepatoadenomic 200 ppm diet orl mus | |
| Antihepatotoxic | |
| Antiherpetic 50 ug/ml | |
| Antiherpetic EC50=>50 ug/ml | |
| Antihistaminic | |
| Antihypercholesterolemic | Economic & Medicinal Plant Research, 6: 189. |
| Antihyperthyroid | |
| Antiinflammatory | |
| Antileukemic | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46. |
| Antileukotriene | |
| Antimelanogenic | |
| Antimutagenic | Ki Soon Rhee. Oilseed Food Ingredients Used To Minimize Oxidative Flavor Deterioration in Meat Products. Phenolic Compounds in Food and Their Effects on Health, Ch.18. |
| Antinitrosaminic | Ki Soon Rhee. Oilseed Food Ingredients Used To Minimize Oxidative Flavor Deterioration in Meat Products. Phenolic Compounds in Food and Their Effects on Health, Ch.18. |
| Antiphidic | |
| Antioxidant 50 uM | |
| Antioxidant IC57=30 ppm | |
| Antioxidant 1/3 quercetin | |
| Antioxidant 30 mM | |
| Antioxidant 1.3 x Vit. E | |
| Antioxidant 1/2 BHA | |
| Antiperoxidant IC50=44 uM | Planta Medica, 57: A54, 1991. |
| Antiperoxidant IC35=200 ug/ml | |
| Antiperoxidant IC85=100 ug/ml | |
| Antiproliferant | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46. |
| Antiprostaglandin | |
| Antiradicular 10 uM | Ohnishi, M., Morishita, H., Iwahashi, H., Toda, S., Shirataki, Y., Kimura, M., and Kido, R. 1993. Inhibitory Effects of Chlorogenic Acids on Linoleic Acid Peroxidation and Haemolysis. <i>Phytochemistry</i> . 36(3): 579-583. 1994. |
| Antiradicular 1/3 quercetin | |
| Antiradicular 30 mM | |
| Antiradicular IC50=32-35 uM | |
| Antiseptic | |
| Antispasmodic EC50=3.4-15 uM | Phytotherapy Research, 4: 73. |
| Antistaphylococci | |
| Antistomatitic | Economic & Medicinal Plant Research, 5: 207. |
| Antisunburn | |
| Antithiamin | Phenolic Compounds in Food and Their Effects on Health, 69. |
| Antithyroid | Jim Duke's personal files. |
| Antitumor 200 ppm diet orl mus | |
| Antitumor (Skin) | |
| Antitumor-Promoter IC42=10 uM | Cancer Research, 48: 5941. |
| Antiulcerogenic | |
| Antivaccinia | Economic & Medicinal Plant Research, 5: 207. |
| Antiviral IC50=62.5 ug/ml | |
| Anxiolytic | |
| CNS-Active | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| COX-2-Inhibitor IC32=100 uM | |
| Calcium-Antagonist IC50=1.2 uM rbt | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carcinogenic 2% (diet) | |
| Chemopreventive | |
| Cholagogue | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |

Clastogenic
Co-carcinogenic
Collagen-Sparing
Cytoprotective
Cytotoxic TC50=200 ug/ml

DNA-Active
DNA-Protective
Diuretic
Fungicide MIC=0.4 mg/ml
Hepatocarcinogenic 400 ppm diet or
mus (in the absence of alcohol)

Hepatoprotective
Hepatotropic
Histamine-Inhibitor
Immunostimulant
Insectifuge
Leukotriene-Inhibitor
Lipoxygenase-Inhibitor IC27=5 mM
Lipoxygenase-Inhibitor IC50=62-148 uM

Lyase-Inhibitor IC50=94-164 uM
Metal-Chelator
Ornithine-Decarboxylase-Inhibitor
Pesticide
Prooxidant
Prostaglandigenic
Sedative 500 mg
Sunscreen IC50=2.5 mg/l
Sunscreen IC91=5 mg/l
Sunscreen IC98=25 mg/l

Tumorigenic
Vulnerary
Xanthine-Oxidase-Inhibitor IC50=39.21
uM

Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. *Herbal Medicine - A Guide for Health-care Professionals*. The Pharmaceutical Press, London. 296pp.

Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants*. Taylor & Frost, London. 791 pp.

Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants*. Taylor & Frost, London. 791 pp.

Wichtl, M. 1984. *Teedrogen. Ein Handbuch für Apotheker und Ärzte*. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.

Fungicide MIC=0.4 mg/ml

Hepatocarcinogenic 400 ppm diet or
mus (in the absence of alcohol)

Hepatoprotective
Advance in Chinese Medicinal Materials Research. 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 210.

Hepatotropic
Histamine-Inhibitor
Immunostimulant
Insectifuge

Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in *Achillea millefolium* L. (Asteraceae). *Economic Botany* 48(2): 111-120, 1994.

Lipoxygenase-Inhibitor IC27=5 mM
Lipoxygenase-Inhibitor IC50=62-148 uM

Lyase-Inhibitor IC50=94-164 uM
Metal-Chelator
Ornithine-Decarboxylase-Inhibitor
Pesticide
Prooxidant
Prostaglandigenic
Sedative 500 mg
Sunscreen IC50=2.5 mg/l

Sunscreen IC91=5 mg/l
Sunscreen IC98=25 mg/l

Tumorigenic
Vulnerary
Xanthine-Oxidase-Inhibitor IC50=39.21
uM

Jim Duke's personal files.

Mills, Simon and Bone, Kerry. 2000. *Phytotherapy*. Churchill Livingston, Edinburgh.

CALCIUM

| | Root Bark | 16100.0 | 16500.0 | -0.29 | * |
|------------------------------------|-----------|---------|---------|-------|---|
| Activities (28) | | | | | |
| AntiPMS 1 g/day | | | | | |
| Antiallergic 500 mg/day | | | | | |
| Antianxiety | | | | | |
| Antiarrhythmic 500-1,500 mg | | | | | |
| Antiarthritic 1,000 mg/day | | | | | |
| Antiatherosclerotic 500 mg/day | | | | | |
| Anticlimacteric 1,000-1,500 mg/day | | | | | |
| Antidepressant | | | | | |
| Antidote (Aluminum) | | | | | |
| Antidote (Lead) | | | | | |
| Antihyperkinetic | | | | | |
| Antihypertensive | | | | | |
| Antinsomniac | | | | | |
| Antimenopausal 1,000-1,500 mg/day | | | | | |
| Antiobesity | | | | | |
| Antiosteoporotic 500-2,000 mg/day | | | | | |
| Antiperiodontic 750 mg/day | | | | | |
| Antirheumatic 1,000 mg/day | | | | | |
| Antistress 500-1,500 mg/day | | | | | |
| Antitic | | | | | |
| Anxiolytic 500-1,500 mg/day | | | | | |
| Calcium-Channel-Blocker | | | | | |
| Diuretic | | | | | |
| Hypocholesterolemic 500 mg/day | | | | | |

Activities (28)

AntiPMS 1 g/day
Antiallergic 500 mg/day
Antianxiety
Antiarrhythmic 500-1,500 mg
Antiarthritic 1,000 mg/day
Antiatherosclerotic 500 mg/day
Anticlimacteric 1,000-1,500 mg/day
Antidepressant
Antidote (Aluminum)
Antidote (Lead)
Antihyperkinetic
Antihypertensive
Antinsomniac
Antimenopausal 1,000-1,500 mg/day
Antiobesity
Antiosteoporotic 500-2,000 mg/day
Antiperiodontic 750 mg/day
Antirheumatic 1,000 mg/day
Antistress 500-1,500 mg/day
Antitic
Anxiolytic 500-1,500 mg/day
Calcium-Channel-Blocker
Diuretic
Hypocholesterolemic 500 mg/day

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Werbach, M. 1993. *Healing with Food*. Harper Collins, New York, 443 pp.

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Werbach, M. 1993. *Healing with Food*. Harper Collins, New York, 443 pp.

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Werbach, M. 1993. *Healing with Food*. Harper Collins, New York, 443 pp.

Laxative 1,000-1,200 mg
Tranquillizer 500-1,500 mg/day
Vasodilator

| CALCIUM | Leaf | 7000.0 | 27400.0 | 0.61 | * |
|------------------------------------|--|--------|---------|------|---|
| Activities (28) | | | | | |
| AntiPMS 1 g/day | | | | | |
| Antiallergic 500 mg/day | | | | | |
| Antianxiety | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiarrhythmic 500-1,500 mg | | | | | |
| Antiarthritic 1,000 mg/day | | | | | |
| Antiatherosclerotic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Anticlimacteric 1,000-1,500 mg/day | | | | | |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidote (Aluminum) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidote (Lead) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihyperkinetic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihypertensive | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antimenopausal 1,000-1,500 mg/day | | | | | |
| Antiobesity | | | | | |
| Antiosteoporotic 500-2,000 mg/day | | | | | |
| Antiperiodontic 750 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antirheumatic 1,000 mg/day | | | | | |
| Antistress 500-1,500 mg/day | | | | | |
| Antitoxic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Anxiolytic 500-1,500 mg/day | | | | | |
| Calcium-Channel-Blocker | | | | | |
| Diuretic | | | | | |
| Hypocholesterolemic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Hypotensive 1 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Laxative 1,000-1,200 mg | | | | | |
| Tranquilizer 500-1,500 mg/day | | | | | |
| Vasodilator | | | | | |

| CALCIUM | Fruit | 300.0 | 6400.0 | 0.59 | * |
|------------------------------------|--|-------|--------|------|---|
| Activities (28) | | | | | |
| AntiPMS 1 g/day | | | | | |
| Antiallergic 500 mg/day | | | | | |
| Antianxiety | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiarrhythmic 500-1,500 mg | | | | | |
| Antiarthritic 1,000 mg/day | | | | | |
| Antiatherosclerotic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Anticlimacteric 1,000-1,500 mg/day | | | | | |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidote (Aluminum) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidote (Lead) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihyperkinetic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihypertensive | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antimenopausal 1,000-1,500 mg/day | | | | | |
| Antiobesity | | | | | |
| Antiosteoporotic 500-2,000 mg/day | | | | | |
| Antiperiodontic 750 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antirheumatic 1,000 mg/day | | | | | |
| Antistress 500-1,500 mg/day | | | | | |
| Antitoxic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Anxiolytic 500-1,500 mg/day | | | | | |
| Calcium-Channel-Blocker | | | | | |
| Diuretic | | | | | |
| Hypocholesterolemic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Hypotensive 1 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Laxative 1,000-1,200 mg | | | | | |
| Tranquilizer 500-1,500 mg/day | | | | | |

| | | | | | |
|---|---|----------|----------|------|---|
| CALCIUM(CAO) | Leaf | 14000.0 | 24000.0 | | * |
| CALCIUM-MALATE | Leaf | -- | -- | | * |
| CAMPESTEROL | Plant | -- | -- | | * |
| Activities (2) | | | | | |
| Antioxidant IC37=10 uM | | | | | |
| Hypocholesterolemic | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. | | | | |
| CAPROIC-ACID | Plant | -- | -- | | * |
| Activities (1) | | | | | |
| Irritant | | | | | |
| CARBOHYDRATES | Leaf | 400000.0 | 633000.0 | 0.17 | * |
| CARBOHYDRATES | Fruit | 97000.0 | 813000.0 | 0.16 | * |
| CELLULOSE | Leaf | 86000.0 | 106000.0 | -0.7 | * |
| Activities (1) | | | | | |
| Hemostat | Martindale's 29th | | | | |
| CHALCOMORACIN | Root | -- | -- | | * |
| Activities (3) | | | | | |
| Diels-Alder-Adduct | Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar. | | | | |
| Pesticide | | | | | |
| Phytoalexin | Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar. | | | | |
| CHLOROGENIC-ACID | Leaf | -- | -- | | * |
| Activities (77) | | | | | |
| Aldose-Reductase-Inhibitor IC50=1.8 uM rat (strong activity) | Yoshikawa, M., et al. 1999. Medicinal Flowers. I. Aldose Reductase Inhibitors and Three New Eudesmane-Type Sesquiterpenes, Kikkanols A, B, and C, From the Flowers of Chrysanthemum indicum L. <i>Chem Pharm Bull</i> , 47(3): 340-345. | | | | |
| Allelochemical | | | | | |
| Allergenic | | | | | |
| Analgesic | | | | | |
| AntiEBV | Economic & Medicinal Plant Research, 6: 189. | | | | |
| AntiHIV | Economic & Medicinal Plant Research, 6: 189. | | | | |
| AntiLegionella | | | | | |
| Antiatherosclerotic | | | | | |
| Antibacterial | | | | | |
| Anticancer (Colon) | | | | | |
| Anticancer (Forestomach) | | | | | |
| Anticancer (Liver) | | | | | |
| Anticancer (Skin) | | | | | |
| Anticarcinogenic | | | | | |
| Antidiabetic | | | | | |
| Antifeedant | | | | | |
| Antigenotoxic | | | | | |
| Antigonadotropic | Jim Duke's personal files. | | | | |
| Antihemolytic 10 uM | Ohnishi, M., Morishita, H., Iwahashi, H., Toda, S., Shirataki, Y., Kimura, M., and Kido, R. 1993. Inhibitory Effects of Chlorogenic Acids on Linoleic Acid Peroxidation and Haemolysis. <i>Phytochemistry</i> . 36(3): 579-583. 1994. | | | | |
| Antihepatotoxic | | | | | |
| Antiherpetic | Economic & Medicinal Plant Research, 5: 194. | | | | |
| Antihistaminic | | | | | |
| Antihypercholesterolemic | Economic & Medicinal Plant Research, 6: 189. | | | | |
| Antihyperthyroid | | | | | |
| Antiinflammatory | Hagerman, A.E. Tannin-Protein Interactions. Phenolic Compounds in Food and Their Effects on Health, Ch.19. | | | | |
| Antileukotriene | | | | | |
| Antimelanogenic | | | | | |
| Antimutagenic | | | | | |
| Antinitrosaminic | | | | | |
| Antioxidant IC53=200 ppm | Huang, M-T., and Ferraro, T. Phenolic Compounds in Food and Cancer Prevention. Phenolic Compounds in Food and Their Effects on Health, Ch.2 p.21. | | | | |
| Antioxidant IC80=12 uM | | | | | |
| Antioxidant IC50=54.2 uM | | | | | |

| | |
|-----------------------------------|---|
| Antipolio | Jim Duke's personal files. |
| Antiradicular 10 uM | Ohnishi, M., Morishita, H., Iwahashi, H., Toda, S., Shirataki, Y., Kimura, M., and Kido, R. 1993. Inhibitory Effects of Chlorogenic Acids on Linoleic Acid Peroxidation and Haemolysis. <i>Phytochemistry</i> . 36(3): 579-583. 1994. |
| Antiradicular 9 x quercetin | |
| Antiseptic | |
| Antisunburn | |
| Antithyroid | Jim Duke's personal files. |
| Antitumor | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, Londón. 791 pp. |
| Antitumor (Colon) | |
| Antitumor (Forestomach) | |
| Antitumor (Liver) | |
| Antitumor (Skin) | |
| Antitumor-Promoter IC25=10 uM | |
| Antiulcer | Economic & Medicinal Plant Research, 6: 189. |
| Antiviral | Vlietinck, A.J. and Domisse, R.A. eds. 1985. <i>Advances in Medicinal Plant Research</i> . Wiss. Verlag. Stuttgart. |
| Autotoxic | |
| CNS-Active | Wichtl, M. 1984. <i>Teedrogen. Ein Handbuch für Apotheker und Ärzte</i> . Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| CNS-Stimulant 1/6 Caffeine | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardioprotective | |
| Chemopreventive | |
| Cholagogue | Wichtl, M. 1984. <i>Teedrogen. Ein Handbuch für Apotheker und Ärzte</i> . Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| Choleretic | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Clastogenic | Friedman, M. and Dao, L. 1990. Effect of Autoclaving and Conventional and Microwave Baking on the Ergot Alkaloid and Chlorogenic Acid Contents of Morning Glory (<i>Ipomoea tricolor</i> Cav. cv.) Heavenly Blue Seeds. <i>J. Agric. Food Chem.</i> 38: 805-808. |
| Collagen-Sparing | |
| Diuretic | |
| Fungicide | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Hepatoprotective | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Histamine-Inhibitor | |
| Hypoglycemic | |
| Immunostimulant | |
| Insectifuge | Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in <i>Achillea millefolium</i> L. (Asteraceae). <i>Economic Botany</i> 48(2): 111-120, 1994. |
| Interferonogenic | Economic & Medicinal Plant Research, 1: 124. |
| Juvabional | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Larvistat | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Leukotriene-Inhibitor | |
| Lipoxygenase-Inhibitor IC23=5 mM | Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690. |
| Metal-Chelator | McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. <i>Phenolic Compounds in Food and Their Effects on Health</i> , Ch.25. |
| NO-Genic | |
| Ornithine-Decarboxylase-Inhibitor | Hagerman, A.E. <i>Tannin-Protein Interactions. Phenolic Compounds in Food and Their Effects on Health</i> , Ch.19. |
| Oviposition-Stimulant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sunscreen | |
| Sweetener | Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Vulnerary | |

| CHOLINE | Leaf | -- | -- | * |
|--------------------------------------|--|----|----|---|
| Activities (20) | | | | |
| Antialzheimeran 5-16 g/man/day | | | | |
| Antichoreic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. | | | |
| Anticirrhotic 6,000 mg/man/day | | | | |
| Anticystinuric | | | | |
| Antidementia | | | | |
| Antidiabetic | | | | |
| Antidyskinetic 150-200 mg/kg/man/day | Martindale's 28th | | | |
| Antihomocysteine | | | | |
| Antimanic 15-30 g/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | |
| Antinociceptive | | | | |
| Antisteatotic | | | | |
| Cardiodepressant | | | | |
| Cerebrotonic | | | | |

Hepatoprotective

Hypotensive

Ileorelaxant

Lipotropic

Memorigenic

Parasympathomimetic (1/1,000th acetylcholine)

Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.

CHRYSANTHEMIN

Fruit

--

--

*

CIS-5-HYDROXY-L-PIPECOLIC-ACID

Plant

--

--

*

CIS-BETA-GAMMA-HEXANOL

Plant

--

--

*

CITRIC-ACID

Plant

--

--

*

Activities (23)

Allergenic

Alpha-Amylase-Inhibitor

Antiaphthitic 20,000 ppm Martindale's 28th

Antithrombotic

Antibacterial

Anticalculic

Anticoagulant Merck 11th Edition

Antileishmanic

Antimutagenic Economic & Medicinal Plant Research, 6: 235.

Antioxidant Merck 11th Edition

Synergist

Antiseborrheic

Antiseptic Martindale's 29th

Antitubercular

Antitumor Economic & Medicinal Plant Research, 6: 235.

Disinfectant Martindale's 29th

FLavor FEMA 370-4,400 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Hemostat

Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Laxative? Lawrence Review of Natural Products, Sep-91.

Litholytic Martindale's 29th

Mycobactericide

Odontolytic Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Refrigerant Martindale's 28th

COPPER

Root Bark

--

6.0

-0.84

*

Activities (12)

Antianemic

Antiarthritic

Antidiabetic 2-4 mg/day Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antifatigue

Antiinflammatory Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antinociceptive Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antosteoporotic

Cardioprotective

Contraceptive Martindale's 28th

Hypocholesterolemic Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Immunomodulator

Schizophrenogenic Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

CUDRANIN

Wood

--

--

*

CYANIDIN

Fruit

--

--

*

Activities (7)Allelochemical
IC90=1 mM

Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.

Antioxidant
ID50=3.5-22 uM

VIT. L

Metal-Chelator
(Copper)

Pesticide

Pigment Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

Prooxidant

| | | | | |
|-----------------------|-----------|----|----|---|
| CYANIDIN-3-GLUCOSIDE | Fruit | -- | -- | * |
| CYCLOMORUSIN | Root Bark | -- | -- | * |
| CYCLOMULBERRIN | Root Bark | -- | -- | * |
| CYCLOMULBERROCHROMENE | Root | -- | -- | * |
| DIHYDROKAEMPFEROL | Wood | -- | -- | * |
| DIHYDROMORIN | Wood | -- | -- | * |
| DIHYDROQUERCETIN | Wood | -- | -- | * |

Activities (3)

Antimutagenic ID50=50-100 nM Maga, J.A. Contribution of Phenolic Compounds to Smoke Flavor. *Phenolic Compounds in Food and Their Effects on Health*, Ch.13.

Antioxidant

Antithiamin Pratt, D.E. *Natural Antioxidants from Plant Material. Phenolic Compounds in Food and Their Effects on Health*, Ch.5.

| | | | | |
|----------------------|------|----|----|---|
| DIHYDROXYRESVERATROL | Wood | -- | -- | * |
| ECDYSTERONE | Leaf | -- | -- | * |

Activities (4)

Analgesic

Juvabional

Pesticide

Proteinogenic

| | | | | |
|----------------------------|-------|----|----|---|
| ETHYL-2,4-DIHYROXYBENZOATE | Plant | -- | -- | * |
| EUGENOL | Plant | -- | -- | * |

Activities (76)

Acaricide LD50=5.47 ug/sq cm cf DEET at 37.59 ug/sq cm

Allergenic

Analgesic Merck 11th Edition

Anesthetic 200-400 Phytotherapy Research, 4: 93.

AntiTNF

Antiaggregant IC50=0.3 uM Phytotherapy Research, 4: 93.

Antiarachidonate

Antibacterial 500 ppm Valnet, J. 1982. *The Practice of Aromatherapy*. Translated from the 1980 French Edition by Robin Campbell and Libby Houston. Destiny Books, New York. 279 pp.

Antibacterial MBC=400 ug/ml

Anticonvulsant Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

Antiedemic 100

Antiestrogenic Phytotherapy Research, 4: 95.

Antifeedant

Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Antigenotoxic 50-500 mg/kg orl mus

Antiherpetic IC50=16.2-25.6 ug/ml

Antiinflammatory (11 uM)

IC~97=1,000 uM

Antikeratotic IC50=16.2-25.6 ug/ml

Antimitotic Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

Antimutagenic

Antinitrosating Economic & Medicinal Plant Research, 6: 235.

Antioxidant IC65=30 ppm

Antioxidant 10 uM

Antiprostaglandin 11 uM

Antiprostaglandin IC50=9.2 mM

Antipyretic 3 ml/man/day

| | |
|---|---|
| Antisalmonella MIC=400 ug/ml | |
| Antiseptic 3 ml/man/day | |
| Antiseptic 400 ug/ml | |
| Antispasmodic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antistaphylococcc | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles <i>Artemisia</i> .344pp.Maffei,M.(Ed)2002. <i>Vetiveria</i> .The Genus <i>Vetiveria</i> .Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999. <i>Tea Tree</i> .The Genus <i>Melaleuca</i> .Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antithromboxane | Lawrence Review of Natural Products, Jul-87. |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (<i>Eugenia caryophyllata</i>) As Potential Anticarcinogenic Agents. <i>Journal of Natural Products</i> 55(7): 999-1003, 1992. |
| Antiulcer | |
| Antiviral IC50=16.2-25.6 ug/ml | |
| Apifuge | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| CNS-Depressant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| COX-1-Inhibitor IC97=1,000 uM | |
| COX-2-Inhibitor IC>97=1,000 uM | |
| COX-2-Inhibitor IC50=129 uM | |
| Calcium-Antagonist IC50=224 uM | |
| Calcium-Antagonist IC50=200 uM gpg | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | <i>Phytotherapy Research</i> , 4: 93. |
| Carcinogenic? | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Choleretic | |
| Cytochrome-P450-Inhibitor | Pizzorno, J. 1998. <i>Total Wellness</i> . Prima Health, a division of Prima. |
| Cytotoxic 25 ug/ml | <i>Phytotherapy Research</i> , 4: 93. |
| Dermatitigenic | |
| Enterorelaxant | <i>J. Aromatherapy</i> 4: 22. |
| FLavor FEMA 10-500 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
| Hepatoprotective 100 ppm | |
| Herbicide | |
| Insecticide | |
| Insectifuge | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | |
| Juvabional | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Larvicide | |
| Motor-Depressant | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances, Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. <i>Bioactive Volatile Compounds from Plants</i> . ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=2,000 ug/ml | Shoyakugaku Zasshi, 44: 183. |
| Neurotoxic | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That:The Essential Pharmacology of Herbs and Spices. <i>Tips</i> 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. <i>Anns. Intern. Med.</i> 117(2):165-6; Huxtable, R. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Prostaglandin-Synthesis-Inhibitor 1 mM rbt | Chen, S. J., Wang, M. H., Chen, I. J. 1996. Antiplatelet and Calcium Inhibitory Properties of Eugenol and Sodium Eugenol Acetate. <i>Gen Pharmacol</i> , 27(4): 629-633. |
| Prostaglandin-Synthesis-Inhibitor IC50=9.2 uM | |
| Sedative | |
| Termiticide LD100=5 mg/g | |
| Trichomonicide LD100=300 ug/ml | |
| Trichomonistat IC50=10 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Trypsin-Enhancer | Lawrence Review of Natural Products, Dec-93. |
| Ulcerogenic | <i>Phytotherapy Research</i> , 4: 93. |
| Varroacide | |
| Vasodilator | |
| Vermifuge | |

| | | | | | |
|-------|-------|----------|----------|-------|---|
| FAT | Seed | 330000.0 | 380000.0 | 0.6 | * |
| FAT | Leaf | 68000.0 | 74000.0 | 0.35 | * |
| FAT | Fruit | 4000.0 | 32000.0 | -0.4 | * |
| FIBER | Leaf | -- | 153000.0 | -0.11 | * |

| | |
|------------------------------|--|
| Angiotensin-Receptor-Blocker | |
| Antidiabetic | |
| Antihypertensive | |
| Antiobesity | |
| Antitumor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Beta-Blocker | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardioprotective | |
| Diuretic | |
| Hypocholesterolemic | |
| Hypotensive 10 g/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Hypouricemic | |
| Laxative | |
| Vasodilator | |

| | | | | | |
|-------|-------|--------|---------|-------|---|
| FIBER | Fruit | 9000.0 | 60000.0 | -0.77 | * |
|-------|-------|--------|---------|-------|---|

Activities (15)

| | |
|------------------------------|--|
| Angiotensin-Receptor-Blocker | |
| Antidiabetic | |
| Antihypertensive | |
| Antiobesity | |
| Antitumor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Beta-Blocker | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardioprotective | |
| Diuretic | |
| Hypocholesterolemic | |
| Hypotensive 10 g/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Hypouricemic | |
| Laxative | |
| Vasodilator | |

| | | | | | |
|---------|------|----|----|----|---|
| FOLACIN | Leaf | -- | -- | -- | * |
|---------|------|----|----|----|---|

Activities (15)

| | |
|--|--|
| AntiSpina-Bifida | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antianemic 5-20 mg/man/day | |
| Anticervicaldysplastic 8-30 mg/wmn/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticheilitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antigingivitic 2-5 mg/day/man | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiglossitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antimyelotoxic 5 mg/day/orl/man | Martindale's 29th |
| Antineuropathic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiperiodontitic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiplaque | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antipsychotic | Martindale's 29th |
| Hematopoietic | Merck 11th Edition |
| Uricosuric | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Xanthine-Oxidase-Inhibitor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |

| | | | | | |
|-------------|------|----|----|----|---|
| FOLNIC-ACID | Leaf | -- | -- | -- | * |
|-------------|------|----|----|----|---|

| | | | | | |
|----------|------|----|----|----|---|
| FRUCTOSE | Leaf | -- | -- | -- | * |
|----------|------|----|----|----|---|

Activities (8)

| | |
|---------------|--|
| Antialcoholic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antidiabetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antihangover | |
| Antiketotic | Merck 11th Edition |

| | |
|-----------------------|--|
| Laxative | |
| Neoplastic | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| Sweetener 2 x glucose | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |

| GABA | Leaf | -- | -- | * |
|---|--|----|----|---|
| Activities (22) | | | | |
| Analeptic | | | | |
| Anticephalagic | | | | |
| Anticerebrotic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |
| Antichoreic 1-32 g/man/day | Martindale's 29th | | | |
| Anticonvulsant 4,120 mg/kg ipr mus | Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006. | | | |
| Antihypertensive 1,000-4,000 mg/man/day | | | | |
| Antiinsomniac | | | | |
| Antilethargic | | | | |
| Antistress | | | | |
| Antitinitic | | | | |
| Anxiolytic | | | | |
| CNS-Inhibitor 2,500 mg/kg scu mus | Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006. | | | |
| CNS-Inhibitor 0.1 mg/kg ivn cat | Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006. | | | |
| CNS-Inhibitor 100 mg/kg ivn dog | Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006. | | | |
| Cardiovascular 208 ivn dog | Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006. | | | |
| Diuretic 1,500-4,000 mg/man/day | | | | |
| Hypotensive 1,000-4,000 mg/day | | | | |
| Neuroinhibitor | | | | |
| Neurotoxic (to birds) | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |
| Neurotransmitter | | | | |
| Sedative | | | | |
| Tranquilizer | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. | | | |

| GLUCOSE | Leaf | -- | -- | * |
|-----------------------|--|----|----|---|
| Activities (7) | | | | |
| Acetylcholinergic | | | | |
| Antiedemic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |
| Antihepatotoxic | Merck 11th Edition | | | |
| Antiketotic | Merck 11th Edition | | | |
| Antivaricose | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |
| Hyperglycemic | Merck 11th Edition | | | |
| Memory-Enhancer | Science News, 138: 189, 1990. | | | |

| GLUTAMIC-ACID | Leaf | -- | -- | * |
|--------------------------------------|--|----|----|---|
| Activities (8) | | | | |
| Antialkali? 500-1,000 mg/day/orl/man | Martindale's 29th | | | |
| Antiepileptic | | | | |
| Antihyperammonemic | Martindale's 29th | | | |
| Antilithic | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | |
| Antiprostatitic 125-250 mg 3 x/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. | | | |
| Antiretardation | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |
| Anxiolytic | Merck 11th Edition | | | |
| Neurotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |

| GLUTATHIONE | Leaf | -- | -- | * |
|------------------------------|-------------------|----|----|---|
| Activities (7) | | | | |
| ACE-Inhibitor IC50=3.2 ug/ml | | | | |
| Anticytotoxic | | | | |
| Antidote (Heavy Metals) | Martindale's 29th | | | |

| | | | | | |
|--|--|------|---------|------|---|
| Antihepatitic | Martindale's 29th | | | | |
| Antioxidant | | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| GUAIACOL | Plant | -- | -- | -- | * |
| Activities (18) | | | | | |
| Anesthetic | | | | | |
| Antibacterial 8,000 ppm | Valnet, J. 1982. <i>The Practice of Aromatherapy</i> . Translated from the 1980 French Edition by Robin Campbell and Libby Houston. Destiny Books, New York. 279 pp. | | | | |
| Antidermatitic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Antieczemic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Antiesophagitic | Martindale's 29th | | | | |
| Antiseptic | Martindale's 29th | | | | |
| Antituberculin | | | | | |
| Cardiodepressant | Zebovitz, T. C. Ed. 1989. Part VII. <i>Flavor and Fragrance Substances</i> , in Keith L. H. and Walters, D.B., eds. <i>Compendium of Safety Data Sheets for Research and Industrial Chemicals</i> . VCH Publishers, New York. 3560-4253. | | | | |
| Cardiotonic | | | | | |
| Dermal | Zebovitz, T. C. Ed. 1989. Part VII. <i>Flavor and Fragrance Substances</i> , in Keith L. H. and Walters, D.B., eds. <i>Compendium of Safety Data Sheets for Research and Industrial Chemicals</i> . VCH Publishers, New York. 3560-4253. | | | | |
| Emetic | Zebovitz, T. C. Ed. 1989. Part VII. <i>Flavor and Fragrance Substances</i> , in Keith L. H. and Walters, D.B., eds. <i>Compendium of Safety Data Sheets for Research and Industrial Chemicals</i> . VCH Publishers, New York. 3560-4253. | | | | |
| Expectorant 0.3-0.6 ml/man | Martindale's 28th | | | | |
| FLavor FEMA <1-1 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Insectifuge | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | | | | |
| Irritant | | | | | |
| Pesticide | | | | | |
| Prostaglandin-Synthesis-Inhibitor IC50=57 uM | Alanko, J., et al. 1999. Modulation of Arachidonic Acid Metabolism by Phenols: Relation to their Structure and Antioxidant/Proooxidant Properties. <i>Free Radical Biol Med</i> , 26(1/2): 193-201. | | | | |
| Transdermal | Zebovitz, T. C. Ed. 1989. Part VII. <i>Flavor and Fragrance Substances</i> , in Keith L. H. and Walters, D.B., eds. <i>Compendium of Safety Data Sheets for Research and Industrial Chemicals</i> . VCH Publishers, New York. 3560-4253. | | | | |
| HEXALDEHYDE | Leaf | -- | -- | -- | * |
| HEXEN-(2)-AL-(1) | Leaf | -- | -- | -- | * |
| HYDROXYCINNAMIC-ACID | Leaf | -- | -- | -- | * |
| HYDROXYRESVERATROL | Wood | -- | 20000.0 | -- | * |
| INOKOSTERONE | Leaf | -- | 10.0 | -- | * |
| Activities (5) | | | | | |
| Abortifacient | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Anabolic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Analgesic | | | | | |
| Juvabional | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Proteinogenic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| IRON | Root Bark | 70.0 | 290.0 | 0.08 | * |
| Activities (6) | | | | | |
| Antiakathistic | Martindale's 29th | | | | |
| Antianemic | Martindale's 29th | | | | |
| Anticanker | | | | | |
| Anticheilitic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. | | | | |
| Antimenorrhagic 100 mg/day/wmn/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | |
| Prooxidant | | | | | |
| IRON | Fruit | 19.0 | 247.0 | 0.45 | * |
| Activities (6) | | | | | |
| Antiakathistic | Martindale's 29th | | | | |
| Antianemic | Martindale's 29th | | | | |
| Anticanker | | | | | |
| Anticheilitic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. | | | | |
| Antimenorrhagic 100 mg/day/wmn/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | |
| Prooxidant | | | | | |

ISOAMYL-ALCOHOL

Plant

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Activities (3)

- Emetic Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.
- Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.
- Perfume Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

ISOBUTYRALDEHYDE

Leaf

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Activities (1)

Perfumery

ISOBUTYRIC-ACID

Leaf

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Activities (2)

Irritant

- Transdermal Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

ISOQUERCETIN

Fruit

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Activities (3)

- Antiretroviral
- Antiviral
- Pesticide

ISOQUERCITRIN

Leaf

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Activities (22)

ACE-Inhibitor ID50=300
ug/ml rat (24 hr.)

- Aldose-Reductase-Inhibitor Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
- Antibacterial Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
- Anticancer
- Antielastase IC50=0.7
ug/ml
- Antifeedant Russell, G. B., Phytochemical resources for crop protection, N. Z. J. Technol., 2, 1986, 127-134.
- Antiinflammatory
- Antinociceptive
- Antioxidant 1/4
quercetin
- Antioxidant IC50=9.0
uM
- Antiradicular 1/4
quercetin
- Antitumor
- Antitumor-Promoter
- Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
- Capillarogenic
- Diaphoretic
- Diuretic 10 ppm List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
- Hypotensive Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990.
- Insectiphile Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
- Pesticide
- TNF-alpha-Inhibitor
- Topoisomerase-II-Inhibitor 550 ug/ml Bernard, F. X., Sable, S., Cameron, B., Provost, J., Desnottes, J. F., Crouzet, J., Blanche, F. 1997. Glycosylated Flavones as Selective Inhibitors of Topoisomerase IV. Antimicrobial Agents & Chemotherapy, 41: 992-998.

KAEMPFEROL

Wood

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Activities (75)

- 11B-HSD-Inhibitor
- 5-Lipoxygenase-Inhibitor IC50 (uM)=20
- Aldose-Reductase-Inhibitor 100 uM Oliveira, T. T., Nagem, T. J., Miranda, L. C. G., Paula, V. F., Teixeira, M. A. 1997. Inhibitory Action on Aldose Reductase by Soybean Flavonoids. J Braz Chem Soc, 8(3): 211-213.
- Antialflatoxin IC50=8.73
uM

| | |
|---|---|
| ppm | |
| Antiaggregant 30 uM | |
| Antiallergic | |
| Antibacterial 20 ug/ml | |
| Anticancer | |
| Antifertility 250 mg/kg/day/60 days/orl rat | Kumar, P., Dixit*, V.P., and Khanna, P. Antifertility Studies of Kaempferol: Isolation and Identification from Tissue Culture of some Medicinally Important Plant Species. <i>Plantes médicinales et phytothérapie</i> , 23: 193-201, 1989. |
| Antigingivitic 20 ug/ml | |
| Antitherapeutic 23-92 ug/ml | Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. <i>J. of Natural Products</i> 55(12):1732-1740, 1992. |
| Antihistaminic | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, réprint 1989. |
| Antiimplantation | |
| Antiinflammatory 20 mg/kg | |
| Antiinflammatory 200 mg/kg ipr rat | |
| Antileukemic IC50=3.1 ug/ml | Life Sciences 55: 1061. |
| Antilymphocytic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antimutagenic ID50=10-40 nM | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| Antioxidant IC50=40 uM | |
| Antioxidant 3/4 quercetin | |
| Antioxidant IC50=1.2 ug/ml | |
| Antiperiodontic 20 ug/ml | |
| Antiplaque 20 ug/ml | |
| Antiradicular 7 x quercetin | |
| Antiseptic 20 ug/ml | |
| Antiserotonin 200 mg/kg ipr rat | |
| Antispasmodic | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, réprint 1989. |
| Antistaphylococcic | |
| Antitumor | |
| Antitumor-Promoter | Yasukawa, K., Takido, M., Takeuchi, M., Sato, Y., Nitta, K., and Nakagawa, S. 1989. Inhibitory Effects of Flavonol Glycosides on 12-O-Tetradecanoylphorbol-13-acetate-Induced Tumor Promotion. <i>Chem. Pharm. Bull.</i> 38(3): 774-776, 1990. |
| Antiulcer 50-200 mg/kg ipr rat | |
| Antiviral 23-92 ug/ml | |
| Apoptotic 60 uM | |
| Aromatase-Inhibitor IC12=1 uM/l | Journal of Medicinal Food 2: 235.1999. |
| COX-2-Inhibitor | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carcinogenic | Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. <i>Zulu Medicinal Plants. An inventory</i> . University of Natal Press, Pietermaritzburg. 450 pp. |
| Choleretic | Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Copper-Chelator | |
| Cyclooxygenase-Inhibitor IC50 (uM) =20 | |
| Cytotoxic | |
| Diaphoretic? | Lawrence Review of Natural Products, Dec-90. |
| Diuretic | |
| Estrogenic EC50=0.1-25 uM/l | Journal of Medicinal Food 2: 227.1999. |
| Estrogenic EC50=0.56 uM | |
| Fungicide 20 ug/ml | Father Nature's Farmacy: The aggregate of all these three-letter citations. |
| HIV-RT-Inhibitor IC50=50-150 ug/ml | Garcia, J., Morin,* C., Nyasse, B., Sondengam, B-L., Tchouankeu, J-C., and Tsamo, E. Complete Structural Assignments Of An Ergosterol Derivative From <i>Eriandrophragma utile</i> . <i>Journal of Natural Products</i> , 54(1): 136-142, 1991. |
| Hepatoprotective IC50=5.46 uM | |
| Hepatoprotective IC50=1.30 ppm | |
| Hypotensive | |
| ICAM-1-Inhibitor | |
| Inotropic | |
| Iodothyronine-Deiodinase-Inhibitor | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| JNK-Inhibitor | |
| Lipoxygenase-Inhibitor | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| MAO-Inhibitor | |

NO-Inhibitor IC50=13.9 uM

Natriuretic

Neuroprotective

PAF-Inhibitor

Pesticide

Protisticide

Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of *Helianthemum glomeratum*. *Phytotherapy Research*, 13(2): 102-105.

Quinone-Reductase-Inducer 3 uM

TNF-alpha-Inhibitor IC50=3.99 uM

Teratologic

Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. *Toxicol Ind Health*, 14: 223-237.

Topoisomerase-II-Inhibitor IC50=8.1 ug/ml Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. *J Natural Products*, 58: 217-225.

Tyrosinase-Inhibitor ID50=230 uM

Uterotrophic EC50=0.1-25 uM/l Journal of Medicinal Food 2: 227.1999.

Vasodilator

cAMP-Phosphodiesterase-Inhibitor

iNOS-Inhibitor IC50=<15 uM

iNOS-Inhibitor IC50=13.9 uM

| | | | | |
|-----------------------------------|---|----|----|---|
| KUWANON-A | Root Bark | -- | -- | * |
| KUWANON-B | Root Bark | -- | -- | * |
| KUWANON-C | Root Bark | -- | -- | * |
| Activities (1) | | | | |
| Aldose-Reductase-Inhibitor 100 uM | Yamaguchi, T., Sato, J., Mihashi, H., Nomura, T. 1991. Aldose Reductase Inhibitors Containing Benzopyrans for Treatment of Diseases Associated with Diabetes. Patent, Japan Kokai Tokkyo Koho-03 68,517. 9pp. | | | |
| KUWANON-F | Root Bark | -- | -- | * |
| KUWANON-G | Root Bark | -- | -- | * |
| Activities (3) | | | | |
| Fungicide | | | | |
| Hypotensive | | | | |
| Pesticide | | | | |
| KUWANON-H | Root Bark | -- | -- | * |
| Activities (3) | | | | |
| Fungicide | | | | |
| Hypotensive | | | | |
| Pesticide | | | | |
| KUWANON-I | Tissue Culture | -- | -- | * |
| KUWANON-J | Tissue Culture | -- | -- | * |
| LEUCINE | Leaf | -- | -- | * |
| Activities (2) | | | | |
| Antiecephalopathic | Martindale's 29th | | | |
| Essential | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |
| LINALOL | Plant | -- | -- | * |
| LINOLEIC-ACID | Seed | -- | -- | * |
| Activities (27) | | | | |
| 5-Alpha-Reductase-Inhibitor | | | | |
| AntiMS | Economic & Medicinal Plant Research, 6: 189. | | | |
| Antiacne | | | | |
| Antialopellic | | | | |

| | |
|-------------------------------|--|
| Antiandrogenic | |
| Antiarteriosclerotic | |
| Antiarthritic | Economic & Medicinal Plant Research, 6: 189. |
| Anticorony | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antieczemic | Economic & Medicinal Plant Research, 6: 189. |
| Antifibrinolytic | Economic & Medicinal Plant Research, 1: 53. |
| Antigranular | |
| Antihistaminic | Economic & Medicinal Plant Research, 6: 189. |
| Antiinflammatory IC50=31 uM | |
| Antileukotriene-D4 IC50=31 uM | |
| Antimennorrhagic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiprostatic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carcinogenic | Science News, 146: 421. |
| Comedolytic | |
| Hepatoprotective | |
| Hypocholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Immunomodulator | Economic & Medicinal Plant Research, 6: 189. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Metastatic | Science News, 146: 421. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Propeptic | |

| LUPEOL | Plant | -- | -- | * |
|-----------------------------------|--|----|----|---|
| Activities (21) | | | | |
| AntiEBV | | | | |
| Antiangiogenic 30-50 ug/ml | | | | |
| Antiedemic | | | | |
| Antiflu | | | | |
| Antihyperglycemic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antiinflammatory 1/3 indomethacin | | | | |
| Antilithic 25 mg/kg/day | | | | |
| Antimalarial IC50=46.8 ug/ml | Khalid, S.A., Farouk, A., Geary**, T.G., and Jensen, J.B. 1985. Potential Antimalarial Candidates From African Plants: An In Vitro Approach Using <i>Plasmodium falciparum</i> *. Journal of Ethnopharmacology, 15: 201-209, 1986. | | | |
| Antioxalate 25 mg/kg/day | | | | |
| Antioxidant 25 mg/kg/day | | | | |
| Antiperoxidant 25 mg/kg/day | | | | |
| Antiprostaglandin | | | | |
| Antirheumatic | | | | |
| Antitumor | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antiurethrotic | | | | |
| Antiviral | | | | |
| Cytotoxic 50-500 ppm | | | | |
| FPTase-Inhibitor IC50=65 ug/ml | | | | |
| Hypotensive | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Pesticide | | | | |
| TOPO-2-Inhibitor IC50=10.4 uM | | | | |
| M-CRESOL | | | | |
| Activities (8) | | | | |
| Antiseptic | Merck 11th Edition | | | |
| Fumigant | Merck 11th Edition | | | |
| Hemolytic 3,000 ppm | Martindale's 28th | | | |
| Irritant | Martindale's 28th | | | |
| Parasiticide | | | | |
| Perfumery 0.10% | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | |
| Pesticide | | | | |
| Rodenticide LD50=1,100 cut rat | | | | |

Activities (1)

Dye

Merck 11th Edition

MAGNESIUM

Root Bark

2310.0

2450.0

0.55

*

Activities (65)

AntiCFS

AntiLyme 400-1,000 mg

AntiMS

AntiPMS 400-800
mg/day/wmn/orlAntiPMS 400-800
mg/day/wmn orlAntiRaynaud's 280-350
mg/day

Antiaggregant 400 mg/day

Antialcoholic

Antianginal 400 mg/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antianorectic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antianxiety 400 mg/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antiarrhythmic 400 mg/day

Antiarthritic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antiasthmatic

Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Antiatherosclerotic 400
mg/day

Anticephalagic

Anticlimacteric 500-750
mg/day

Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp.

Anticonvulsant

Challe, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reservse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Anticorony 400 mg/day

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antidepressant

Antidiabetic 400-800
mg/man/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antidysmenorrheic 100 mg 4
x/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antiedometriotic 500 mg/day

Antienterotic

Antiepileptic 450 mg/day

Antifatigue

Antifibromyalgic 200-300 mg
3x/day

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antigastric

Antiglaucomic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antihyperkinetic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antihypertensive

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antihypoglycemic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antiinflammatory 100 mg 4
x/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antiinsomniac

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antilithic

Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Antimastalgic

Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Antimenopausal 500-750
mg/day

Antimigraine 200 mg/day/man

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antimiral-valve-prolapso

Antinephrolytic

Antineurotic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antosteoporotic 500-1,000
mg/day/wmn/orl

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antiplaque 500-1,000 mg/day

Challe, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reservse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Antispasmodic

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antispasmophilic 500 mg/day

Antistress 500-750 mg/day

Challe, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reservse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Antistroke 400 mg/day

Challe, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reservse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Antisynrome-X 400
mg/man/day

Challe, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reservse insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Anxiolytic 500-750 mg/day

Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp.

CNS-Depressant

Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp.

| | |
|--------------------------------|--|
| Cardioprotective | |
| Diuretic | |
| Hypocholesterolemic 400 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Hypotensive 260-500 mg/day | |
| Immunomodulator | |
| Insulinogenic 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Laxative 300-500 mg/day | |
| Litholytic | |
| Myorelaxant 100 mg 4 x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Neurotransmitter | |
| Tranquilizer 500-750 mg/day | |
| Uterorelaxant 100 mg 4 x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Vasodilator | |

| | | | | |
|----------------|------|--------|--------|---|
| MAGNESIUM(MGO) | Leaf | 2500.0 | 7200.0 | * |
| MALIC-ACID | Leaf | -- | -- | * |

Activities (15)

| | |
|--------------------------------|--|
| Antiatherosclerotic | |
| Antibacterial | |
| Antifibromyalgic 300 mg 3x/day | |
| Antioxidant Synergist | Merck 11th Edition |
| Antiseborrheic | |
| Antiseptic | Martindale's 29th |
| Antitubercular | |
| Antitumor | Economic & Medicinal Plant Research, 6: 235. |
| Bacteristat | |
| Bruchiphobe | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Hemopoietic | |
| Laxative? | Lawrence Review of Natural Products, Sep-91. |
| Mycobactericide | |
| Pesticide | |
| Sialogogue | Martindale's 29th |

| | | | | | |
|-----------|-----------|------|------|-------|---|
| MANGANESE | Root Bark | 15.0 | 37.0 | -0.68 | * |
|-----------|-----------|------|------|-------|---|

Activities (14)

| | |
|--------------------------------|--|
| AntiPMS | |
| Antialcoholic | Forest H. Nielsen, USDA, Grand Forks, various publications. |
| Antianemic | Martindale's 28th |
| Antiarthritic | |
| Antidiabetic 3-5 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antidiabetic 10-30 mg/man/day | |
| Antidiscotic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidyskinetic | Martindale's 28th |
| Antiepileptic 450 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antosteoporotic | |
| Antiototic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antioxidant | |
| Antisynrome-X 10-30 mg/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Hypoglycemic 10-30 mg/man/day | |

| | | | | |
|---------------------------|------|----|----|---|
| METHYL-ETHYL-ACETALDEHYDE | Leaf | -- | -- | * |
|---------------------------|------|----|----|---|

| | | | | |
|---------------------|------|----|----|---|
| METHYL-ETHYL-KETONE | Leaf | -- | -- | * |
|---------------------|------|----|----|---|

Activities (1)

| | |
|--------------------|---|
| FLavor FEMA 20-250 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
|--------------------|---|

| | | | | |
|---------------------|------|----|----|---|
| METHYL-HEXYL-KETONE | Leaf | -- | -- | * |
|---------------------|------|----|----|---|

| | | | | |
|-------------------|-------|----|----|---|
| METHYL-SALICYLATE | Plant | -- | -- | * |
|-------------------|-------|----|----|---|

Activities (21)

| | |
|----------------------|---|
| Analgesic | |
| Anaphrodisiac | |
| Antiinflammatory | Planta Medica, 56(6): 660, 1990. |
| Antioxidant | |
| Antipyretic | |
| Antiradicular | O'Connell, M.J., Webster, N.R. 1989. Hyperoxia and salicylate metabolism in rats. <i>J. Pharm. Pharmacol.</i> 42: 205-206, 1990. |
| Antirheumatalgic | Martindale's 28th |
| Antiseptic | |
| Antitartar | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carminative | |
| Counterirritant | Merck 11th Edition |
| Dentifrice | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| FLavor FEMA 70-8,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
| Herpetifuge | |
| Insectifuge | Hardie, J., Isaacs, R., Pickett,* J.A., Wadhams, L.J., and Woodcock, C.M. 1994. Methyl Salicylate and (−)-(1R,5S)-Myrtenal are Plant-Derived Repellents for Black Bean Aphid, <i>Aphis Fabae</i> Scop. (Homoptera: Aphididae). <i>J. of Chemical Ecology</i> , 20(11):2847. |
| Insectiphile | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |

| | | | | |
|---|---|--------|--------|---|
| MORACENIN-D | Root | -- | -- | * |
| Activities (1) | | | | |
| Hypotensive | | | | |
| MORACETIN | Leaf | -- | -- | * |
| MORACHALCONE-A | Tissue Culture | -- | -- | * |
| MORIN | Wood | 3000.0 | 4400.0 | * |
| Activities (15) | | | | |
| ACE-Inhibitor IC60-90=333 ug/ml | | | | |
| Aldose-Reductase-Inhibitor 100 uM | Oliveira, T. T., Nagem, T. J., Miranda, L. C. G., Paula, V. F., Teixeira, M. A. 1997. Inhibitory Action on Aldose Reductase by Soybean Flavonoids. <i>J Braz Chem Soc</i> , 8(3): 211-213. | | | |
| Antifeedant IC52=<1000 ppm diet | Lydon, J. & Duke, S. The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. | | | |
| Antiherpetic | Vlietinck, A.J. and Dommisse, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart. | | | |
| Antioxidant IC50=1.73mM | | | | |
| Antispasmodic | | | | |
| Antitumor-Promoter | Yasukawa, K., Takido, M., Takeuchi, M., Sato, Y., Nitta, K., and Nakagawa, S. 1989. Inhibitory Effects of Flavonol Glycosides on 12-O-Tetradecanoylphorbol-13-acetate-Induced Tumor Promotion. <i>Chem. Pharm. Bull.</i> 38(3): 774-776, 1990. | | | |
| Antiviral | Vlietinck, A.J. and Dommisse, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart. | | | |
| Cyclooxygenase-Inhibitor IC50 (uM) =180 | | | | |
| Dye | Merck 11th Edition | | | |
| Lipoxygenase-Inhibitor IC50 (uM)=160 | =ICMR(Indian Council of Medical Research),1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp | | | |
| Myorelaxant | | | | |
| Pesticide | | | | |
| Topoisomerase-I-Inhibitor IC50=42.1 ug/ml (weak activity) | Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. <i>J Natural Products</i> , 58: 217-225. | | | |
| Topoisomerase-II-Inhibitor IC50=40.8 ug/ml | Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. <i>J Natural Products</i> , 58: 217-225. | | | |
| MORUSIN | Root Bark | -- | -- | * |
| MUCILAGE | Fruit | -- | -- | * |
| Activities (3) | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | |
| Demulcent | | | | |
| Hypocholesterolemic | | | | |
| MULBERRANOL | Root Bark | -- | -- | * |
| MULBERRIN | Plant | -- | -- | * |

| | | | | | |
|--------------------------------------|--|-----|------|-------|---|
| MULBERROFURAN-B | Root Bark | -- | -- | -- | * |
| MULBERROFURAN-M | Plant | -- | -- | -- | * |
| MULBERROFURAN-N | Plant | -- | -- | -- | * |
| MYRISTIC-ACID | Seed | -- | -- | -- | * |
| Activities (6) | | | | | |
| Antioxidant IC71=60 | | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| Cosmetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Hypercholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) | | | | |
| Lubricant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. | | | | |
| N-BUTANOL | Leaf | -- | -- | -- | * |
| N-BUTYRALDEHYDE | Leaf | -- | -- | -- | * |
| Activities (1) | | | | | |
| FLavor FEMA <1-5 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| NIACIN | Fruit | 7.0 | 54.0 | -0.09 | * |
| Activities (39) | | | | | |
| Allergenic | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| AntiLyme 50 mg/day | | | | | |
| AntiMeniere's | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. | | | | |
| AntiRaynaud's 1,500-4,000 mg/day | | | | | |
| Antiacerodynic | | | | | |
| Antiallergic 50 mg/2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antialzheimeran | | | | | |
| Antiamblyopic | | | | | |
| Antianginal | | | | | |
| Anticataract | | | | | |
| Antichilblain | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Anticonvulsant 3 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antidementia | | | | | |
| Antidermatitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidiabetic | | | | | |
| Antidysphagic | | | | | |
| Antiepileptic 3 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antihangover 50 mg | | | | | |
| Antihistaminic 50 mg 2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antihyperactivity 1.5-6 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antiinsomnic 1 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antineuragic | | | | | |
| Antiparkinsonian 100 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antipellagric | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiscotomic | | | | | |
| Antispasmodic 100 mg 2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antivertigo | | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| Cardioprotective | | | | | |
| Circulotonic | | | | | |
| Fibrinolytic | | | | | |
| Hepatoprotective | | | | | |
| Hepatotoxic | | | | | |
| Hypocholesterolemic 50-100 mg 3x/day | | | | | |
| Hypoglycemic | | | | | |
| Hypolipidemic | | | | | |
| Sedative | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | |
| Serotonergic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | |
| Vasodilator | Martindale's 29th | | | | |

O-CRESOL

Plant

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Activities (6)

| | |
|----------------------------------|--|
| Allelochemical IC50=0.36 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antiseptic | Merck 11th Edition |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Pesticide | |
| Rodenticide LD 50=620 cut rat | |

OLEIC-ACID

Seed

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Activities (18)

| | |
|----------------------------------|---|
| 5-Alpha-Reductase-Inhibitor | |
| Allergenic | |
| Alpha-Reductase-Inhibitor | |
| Anemiogenic | |
| Antialope cic | |
| Antiandrogenic | |
| Antiinflammatory IC50=21 uM | |
| Antileukotriene-D4 IC50=21 uM | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Choleretic 5 ml/man | |
| Dermatitigenic | |
| FLavor FEMA 1-30 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hypocholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press, Boca Raton, FL. 233 pp.) |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Merck 11th Edition |
| Percutaneostimulant | Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugabayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Propecic | |

OXALIC-ACID

Leaf

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Activities (9)

| | |
|---------------|--|
| Acaricide | |
| Antiseptic | |
| CNS-Paralytic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Fatal | Martindale's 29th |
| Hemostatic | Merck 11th Edition |
| Irritant | |
| Pesticide | |
| Renotoxic | Merck 11th Edition |
| Varroacide | |

OXYDIHYDROMORUSIN

Root Bark

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OXYRESVERATROL

Wood

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Activities (1)

Antioxidant IC50=3.3-4.3 uM

P-CRESOL

Plant

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Activities (8)

| | |
|--------------------------------|--|
| Allelochemical IC50=1.13 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| FLavor FEMA <1 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Parasiticide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |

LD50=1,100 cut rat

| | | | | |
|-------------------------------|--|----|----|---|
| PALMITOLEIC-ACID | Seed | -- | -- | * |
| Activities (2) | | | | |
| 5-Alpha-Reductase-Inhibitor | | | | |
| Soap | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| PECTIN | | | | |
| | Leaf | -- | -- | * |
| Activities (24) | | | | |
| Antiatheromic 15 g/man/day | Cerda, JJ. Pectin in Health and Disease. HortScience, 25(12): 1485, 1990. | | | |
| Antibacterial | | | | |
| Antidiabetic 10 g/man/day/orl | | | | |
| Antidiarrheic | Merck 11th Edition | | | |
| Antienteric | | | | |
| Antigallstone | | | | |
| Antigastritic | | | | |
| Antilithic | | | | |
| Antimetastatic | | | | |
| Antimutagenic | | | | |
| Antiobesity | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. | | | |
| Antitumor (Colon) | | | | |
| Antitumor (Prostate) | | | | |
| Antitussive | | | | |
| Antiulcer | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | |
| Chemopreventive | | | | |
| Demulcent | | | | |
| Fungicide | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. | | | |
| Hemostat | | | | |
| Hypocholesterolemic | | | | |
| Hypoglycemic | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. | | | |
| Peristaltic | | | | |
| Pesticide | | | | |
| PELARGONIDIN-3-GLUCOSIDE | Fruit | -- | -- | * |
| PETUNIDIN-3-RUTINOSIDE | Fruit | -- | -- | * |
| PHENOL | Plant | -- | -- | * |
| Activities (26) | | | | |
| Analgesic | Martindale's 29th | | | |
| Anesthetic | | | | |
| AntiMS | Martindale's 29th | | | |
| Antibacterial | | | | |
| Antihemorrhoidal | Martindale's 28th | | | |
| Antihydrocoele | Martindale's 29th | | | |
| Antiincontinence | Martindale's 29th | | | |
| Antionychogryphotic | Martindale's 28th | | | |
| Antiotic | Martindale's 28th | | | |
| Antioxidant | Jim Duke's personal files. | | | |
| Antiprostatic | Martindale's 29th | | | |
| Antipyruvetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antiseptic | | | | |
| Antisinusitic | Martindale's 28th | | | |
| Antispastic | Martindale's 28th | | | |
| Antiviral | Martindale's 29th | | | |
| Antiwrinkle | Martindale's 28th | | | |
| CNS-Depressant | Martindale's 29th | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | |
| Carcinogenic | | | | |
| Emetic | Martindale's 29th | | | |
| Fungicide | Martindale's 29th | | | |
| Hemolytic 5,400 ppm | Martindale's 28th | | | |

Rodenticide LD50=1,040 cut
rat

Vasodilator

| | | | | | |
|---------------------------------|--|--------|---------|-------|---|
| PHOSPHORUS | Leaf | 2400.0 | 4500.0 | -0.09 | * |
| Activities (4) | | | | | |
| Antiosteoporotic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Anxiolytic | | | | | |
| Immunostimulant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Osteogenic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| PHOSPHORUS | Fruit | 320.0 | 3200.0 | -0.0 | * |
| Activities (4) | | | | | |
| Antiosteoporotic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Anxiolytic | | | | | |
| Immunostimulant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Osteogenic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| PHOSPHORUS(P2O3) | Leaf | 6500.0 | 14000.0 | | * |
| PHYTATE-PHOSPHORUS | Leaf | 1183.0 | 2548.0 | | * |
| PICEATANNOL | Wood | -- | -- | | * |
| Activities (8) | | | | | |
| Allelopathic | | | | | |
| Antileukemic | Singla*, A.K. Pathak, K. 1989. Phytoconstituents of Euphorbia species. Fitoterapia 61(6): 483-508, 1990. | | | | |
| Antioxidant | | | | | |
| Artemicide | | | | | |
| Fungicide | | | | | |
| Pesticide | | | | | |
| Phytoalexin | | | | | |
| Piscicide | | | | | |
| PIPECOLIC-ACID | Leaf | -- | -- | | * |
| Activities (2) | | | | | |
| Herbistat | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Pesticide | | | | | |
| POTASSIUM | Fruit | 1520.0 | 10133.0 | -0.69 | * |
| Activities (14) | | | | | |
| Angiotensin-Receptor-Blocker | | | | | |
| Antiarrhythmic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antifatigue | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihypertensive | | | | | |
| Antispasmodic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antistroke | | | | | |
| Anxiolytic | | | | | |
| Beta-Blocker | | | | | |
| Cardioprotective 3,000-5,000 mg | | | | | |
| Cardiotoxic 18,000 mg/man/day | | | | | |
| Diuretic | | | | | |
| Hypotensive | | | | | |
| Vasodilator | | | | | |
| POTASSIUM | Root Bark | 4180.0 | 5270.0 | -0.88 | * |
| Activities (14) | | | | | |
| Angiotensin-Receptor-Blocker | | | | | |
| Antiarrhythmic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antifatigue | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihypertensive | | | | | |

Antistroke
 Anxiolytic
 Beta-Blocker
 Cardioprotective 3,000-5,000 mg
 Cardiotoxic 18,000 mg/man/day
 Diuretic
 Hypotensive
 Vasodilator

| | | | | |
|----------------|------|---------|---------|---|
| POTASSIUM(K2O) | Leaf | 20000.0 | 39200.0 | * |
| PROLINE | Leaf | -- | -- | * |
| PROPIONIC-ACID | Leaf | -- | -- | * |

Activities (6)

Flavor FEMA 1- Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry
 36,000
 Fungicide
 2,500-36,000
 Irritant Zebowitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.
 Perfumery
 Pesticide
 Rubefacient Zebowitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

| | | | | | |
|-----------|-------|----------|----------|------|---|
| PROTEIN | Seed | -- | 250000.0 | 0.14 | * |
| PROTEIN | Leaf | 140000.0 | 288000.0 | 0.76 | * |
| PROTEIN | Fruit | 15000.0 | 120000.0 | 0.14 | * |
| QUERCETIN | Plant | -- | -- | -- | * |

Activities (176)

11B-HSD-Inhibitor
 5-Lipoxygenase-Inhibitor
 IC50 (uM)=4
 ATPase-Inhibitor Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
 Aldehyde-Oxidase-Inhibitor IC70-96=10 uM
 Aldose-Reductase-Inhibitor 100 uM
 Aldose-Reductase-Inhibitor 4 ug/ml Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. Sankyo Kenkyusho Nempo, 43: 99-110.
 Aldose-Reductase-Inhibitor IC50=0.84 ug/ml Okada,Y,et al.1995.Search for Naturally Occurring Substances to Prevent the Complications of Diabetes.II.Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation.Chem Pharm Bull43(8):1385-1387
 Aldose-Reductase-Inhibitor IC50=0.344 uM Mao, X. M., Zhang, J. Q. 1993. Inhibition of Aldose Reductase by Extracts of Chinese Herbal Medicine. Zhongguo Zhongyao Zazhi , 18(10): 623-624.
 Allelochemic IC82=1 mM Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4. Oryx Press, Phoenix, 1989, 267pp.
 Allergenic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
 Analgesic
 AntiCrohn's 400 mg/man/3x/day Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
 AntiGTF ID50=120 ug/ml
 AntiHIV
 AntiPMS 500 mg/2x/day/wmn Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
 Antiaflatoxin IC50=25 uM
 Antiaflatoxin IC50=7.5 ppm
 Antiaggregant IC50=55 uM Economic & Medicinal Plant Research, 5: 333.
 Antiaggregant 30 uM
 Antiaging
 Antiallergic IC50=14 uM Jim Duke's personal files.
 Antialzheimeran
 Antianaphylactic Meli, R., Autore, G., Di Carlo, G., Capasso, F. Inhibitory Action of Quercetin on Intestinal Transit in Mice. Phytotherapy Research 4(5): 201, 1990.
 Antiangiogenic
 Antiarthritic
 Antiasthmatic IC50=14 uM
 Antiatherosclerotic
 Antibacterial Jeffery B. Harborne and H. Baxter. eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost. London.

| | |
|--|---|
| Anticarcinomic (Breast) IC50=1.5 uM | Medline (post 1990 searches filed in my computer) |
| Anticariogenic ID50=120 ug/ml | |
| Anticataract | |
| Anticolitic 400 mg/man/3x/day | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticomplementary | |
| Anticystitic 1,000 mg/day/4 weeks | |
| Antidepressant | |
| Antidermatitic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antidiabetic | |
| Antielastase IC50=0.8 ug/ml | |
| Antiecephalitic | Economic & Medicinal Plant Research, 5: 199. |
| Antiescherichic | |
| Antiestrogenic | |
| Antifeedant IC52=<1,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Antifibrosarcomic | |
| Antiflu | Vlietinck, A.J. and Dommisse, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart. |
| Antigastric | Rastite'nye Resursy, 21: 85. |
| Antigonadotropic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antihepatotoxic | Joyeux, M., Rolland, A., Fleurentin, J., Mortier, F., and Dorfman, P. 1989. Tert-Butyl Hydroperoxide-Induced Injury in Isolated Rat Hepatocytes: A Model for Studying Anti-Hepatotoxic Crude Drugs. <i>Planta Medica</i> 56(2): 171-173, 1990. |
| Antiherpetic 48-150 ug/ml | |
| Antihistaminic IC50=<10 uM | |
| Antihydrophobic | Vlietinck, A.J. and Dommisse, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart. |
| Antihypertensive | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Antiinflammatory 20-150 mg/kg | Fitoterapia No.5-1990. |
| Antileishmanic IC50=64 | |
| Antileukemic IC50=10 uM | Economic & Medicinal Plant Research, 5: 225. |
| Antileukemic IC50=>10 ug/ml | Life Sciences 55: 1061. |
| Antileukemic 5.5-60 uM | |
| Antileukotriene | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antilipoperoxidant IC67=50 | |
| Antimalarial IC50=1-6.4 ug/ml | Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987. |
| Antimelanic | |
| Antimetastatic | |
| Antimutagenic ID50=2-5 nM | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| Antimutagenic ID50=0.62 ug/ml | |
| Antimyocarditic | Economic & Medicinal Plant Research, 5: 199. |
| Antinitrosaminic | |
| Antinociceptive | |
| Antioxidant IC96=300 ppm | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| Antioxidant ED50=2.3 uM | Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from <i>Ballota nigra</i> L. Inhibit in vitro LDL Peroxidation. <i>Phytotherapy Research</i> , 14(2): 93-98. |
| Antioxidant 4.7 x Vit. E | |
| Antioxidant IC47=10 uM | |
| Antipancreatic | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Antiperiodontal | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiperistaltic | |
| Antipermeability | |
| Antiperoxidant | Planta Medica, 57: A110, 1991. |
| Antipharyngitic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiplaque | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiplasmodial IC50=13- 64 | |
| Antipodriac | |
| Antipolio | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiproliferant 10 nM | |
| Antiprostanoid | |
| Antiprostatic | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Antipsoriac | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiradicular IC50=4.6 uM | Planta Medica, 56(6): 695, 1990. |

| | |
|---|---|
| Antistreptococcic ID50=120 ug/ml | |
| Antithiamin | Phenolic Compounds in Food and Their Effects on Health, 69. |
| Antithrombic | |
| Antitrypanosomic IC50=13 | |
| Antitumor 10 uM | |
| Antitumor (Bladder) | |
| Antitumor (Breast) | |
| Antitumor (Colon) | |
| Antitumor (Lung) | |
| Antitumor (Ovary) | |
| Antitumor (Skin) 20 uM | |
| Antitumor-Promoter | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer | |
| Antiviral IC50=10 uM | Economic & Medicinal Plant Research, 5: 225. |
| Antiviral 48-150 ug/ml | Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. <i>J. of Natural Products</i> 55(12):1732-1740, 1992. |
| Apoptotic 20-60 uM | |
| Bacteristat 10 mg/ml | |
| Bradycardiac | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| COMT-Inhibitor | |
| COX-2-Inhibitor <40 uM | |
| Calmodulin-Antagonist | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | |
| Capillaroprotective | Merck 11th Edition |
| Carcinogenic 40,000 ppm (diet) mus | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Catabolic | |
| Copper-Chelator | |
| Cyclooxygenase-Inhibitor | |
| Cytochrome-P450-1A2-Inhibitor | |
| Cytotoxic ED50=70 ug/ml | Matsukawa, Y., et al. The Effect of Quercetin and Other Flavonoids on Cell Cycle Progression and Growth of Human Gastric Cancer Cells. <i>Planta Medica</i> , 56(6): 677, 1990. |
| Cytotoxic IC82=100 ug/ml | <i>Planta Medica</i> , 57: A113, 1991. |
| Deiodinase-Inhibitor | Jim Duke's personal files. |
| Diaphoretic? | Lawrence Review of Natural Products, Dec-90. |
| Differentiator 5.5 uM | |
| Estrogenic 10% genistein | |
| Fungicide | |
| Glucosyl-Transferase-Inhibitor ID50=120 ug/ml | |
| HIV-RT-Inhibitor IC50=<1 ug/ml | Nakane, H., Fukushima, M., and Ono*, K. Differential Inhibition Of Reverse Transcriptase And Various DNA Polymerases By Digallic Acid And Its Derivatives. <i>Journal of Natural Products</i> , 53(5): 1234-1240, 1990. |
| Hemostat | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Hepatomagenic 5,000 ppm (diet) rat | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| Hepatoprotective | |
| Hypoglycemic 100 mg/kg of rat | Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989. |
| Inotropic | |
| Insulinogenic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Juvabional | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Larvistat 8,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Lipoxygenase-Inhibitor IC11=1.25 mM | Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690. |
| Lipoxygenase-Inhibitor IC50=0.1-5 uM | |
| MAO-A-Inhibitor | |
| MMP-9-Inhibitor 20 uM | |
| Mast-Cell-Stabilizer | |
| Metal-Chelator (Copper) | Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from <i>Ballota nigra</i> L. Inhibit in vitro LDL Peroxidation. <i>Phytotherapy Research</i> , 14(2): 93-98. |
| Metalloproteinase-Inhibitor IC50=>42 uM | |
| Mutagenic | |
| NADH-Oxidase-Inhibitor | |
| NEP-Inhibitor IC50=>42 uM | |
| NF-kB-Inhibitor | |

| | |
|---|---|
| uM | |
| NO-Inhibitor IC50=20 uM | |
| NO-Synthase-Inhibitor 5-50 uM | |
| Neuroprotective 5-25 uM | |
| Ornithine-Decarboxylase-Inhibitor <10 uM | |
| P450-Inducer 5 uM | Father Nature's Farmacy: The aggregate of all these three-letter citations. |
| P450-Inhibitor 50-100 uM | Father Nature's Farmacy: The aggregate of all these three-letter citations. |
| PGE2-Inhibitor | |
| PTK-Inhibitor 0.4-24 uM | |
| Pesticide | |
| Phospholipase-Inhibitor | |
| Plasmodicide | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. |
| Proliferant | |
| Prostaglandin-Synthesis-Inhibitor 40 ug/ml | Ibewuike, J. C., Ogungbamila, F. O., Ogundaini, A. O., Okeke, I. N., Bohlin, L. 1997. Antiinflammatory and Antibacterial Activities of C-methylflavonol from <i>Piliostigma thonningii</i> . <i>Phytotherapy Research</i> , 11(4): 281-284. |
| Protein-Kinase-C-Inhibitor | Naim, M., Zehavi, U., Nagy, S., and Rouseff, R.L. Hydroxycinnamic Acids as Off-Flavor Precursors in Citrus Fruits and Their Products. Phenolic Compounds in Food and Their Effects on Health, Ch.14. |
| Quinone-Reductase-Inducer 6 uM | Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In Vitro by Flavonoids. <i>Cancer Lett.</i> , 120 (2): 213-216. |
| Quinone-Reductase-Inducer 13 uM | |
| TNF-alpha-Inhibitor IC50=3.11 uM | |
| Teratologic | |
| Topoisomerase-I-Inhibitor IC50=12.8 ug/ml | |
| Topoisomerase-I-Inhibitor IC50=42 uM | |
| Topoisomerase-II-Inhibitor IC50=1-6.9 ug/ml | |
| Topoisomerase-II-Inhibitor IC50=23-40 uM | |
| Tumorigenic 0.1% diet orl rat/yr | Jim Duke's personal files. |
| Tyrosinase-Inhibitor ID50=70 uM | |
| Tyrosine-Kinase-Inhibitor | Economic & Medicinal Plant Research, 6: 170. |
| VEGF-Inhibitor | |
| Vasodilator | |
| Xanthine-Oxidase-Inhibitor IC50=>0.4 ug/ml | Chem. & Pharm. Bull. 38: 1772. |
| Xanthine-Oxidase-Inhibitor IC50=10.6 ug/ml | |
| Xanthine-Oxidase-Inhibitor 3.1 uM | |
| cAMP-Phosphodiesterase-Inhibitor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| iNOS-Inhibitor IC50=20 uM | |

QUERCETIN-3'-GLUCOSIDE

Leaf -- -- *

Activities (2)

Antibacterial

Pesticide

QUERCITRIN

Leaf -- -- *

Activities (44)

ACE-Inhibitor IC50=0.67 mM/

Aldose-Reductase-Inhibitor IC50=2 uM Terashima, S., Shimizu, M., Nakayama, H., Ishikura, M., et al. 1990. Studies on Aldose Reductase Inhibitors from Medicinal Plant of 'Sinfito,' *Potentilla candicans*, and Further Synthesis of Their Related Compounds. *Chem. Pharm. Bull.* 38(10):2733-2736, 1990

Aldose-Reductase-Inhibitor IC55=0.15 uM

Aldose-Reductase-Inhibitor 0.1-100 uM

Aldose-Reductase-Inhibitor 0.5-4 ug/ml

Aldose-Reductase-Inhibitor IC50=64 uM rat Al-Khalil, S. 1996. Inhibition of Lens Alkaloids Reductase by Protopine Alkaloids. *Saudi Pharm J*, 4(1): 45-47.

Aldose-Reductase-Inhibitor IC55=0.1 uM

Antiarrhythmic

Antibacterial Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

| | |
|----------------------------------|--|
| Antiedemic | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antifeedant IC50=<1,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Antiflu | Leung, A.Y., <i>Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics</i> , John Wiley & Sons, New York, 1980. |
| Antihemorrhagic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antihepatotoxic | |
| Antiherpetic | Economic & Medicinal Plant Research, 5: 198. |
| Antiinflammatory | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antimutagenic ID50=2-5 nM | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| Antioxidant IC50=120 uM | |
| Antipurpuric | |
| Antispasmodic | |
| Antistaphylococcic 0.41% | |
| Antithrombogenic | |
| Antitumor | |
| Antiulcer | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antiviral | |
| CNS-Depressant | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardiotonic | |
| Choleretic | Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Cyclooxygenase-Activator 200 uM | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Detoxicant | Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Diuretic | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Dye | Merck 11th Edition |
| Hemostat | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Hepatotonic | |
| Hypoglycemic | Economic & Medicinal Plant Research, 6: 189. |
| Hypotensive | |
| Insectiphile | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| MAO-A-Inhibitor | |
| MAO-Inhibitor | |
| Paralytic | |
| Pesticide | |
| Vasopressor | |

RESORCINOL

| Wood | -- | -- | * |
|------|----|----|---|
|------|----|----|---|

Activities (17)

| | |
|-------------------------------------|--|
| Aldose-Reductase-Inhibitor 909.1 uM | Toyomizu, M., Sugiyama, S., Jin, R. L., Nakatsu, T. 1993. Alpha-Glucosidase and Aldose Reductase Inhibitors: Constituents of Cashew, <i>Anacardium occidentale</i> , Nut Shell Liquids. <i>Phytotherapy Research</i> , 7(3): 252-254. |
| Allelochemical IC50=1.1 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Antiacne | |
| Antibacterial | |
| Anticoltic | |
| Antidermatotic | |
| Antieczemic | |
| Antioxidant | Jim Duke's personal files. |
| Antipruritic | Martindale's 29th |
| Antipsoriac | |
| Antiseborrheic | Martindale's 29th |
| Antiseptic | |
| Antithyroid | Martindale's 29th |
| Fungicide | |
| Irritant | Martindale's 29th |
| Keratolytic | Martindale's 28th |
| Pesticide | |

RESVERATROL

| Wood | -- | -- | * |
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Activities (68)

| |
|------------------------------|
| 5-HETE-Inhibitor IC50=3-9 uM |
| 5-HT-Inhibitor IC50=3-9 uM |

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|--|---|
| IC50=1-9 uM | |
| 5-Lipoxygenase-Inhibitor | |
| IC50=48 uM | |
| Akt-Inhibitor | |
| Antiaggregant IC50=0.016-232 uM/L | |
| Antiaggregant IC50=100 uM | |
| Antiangiogenic | |
| Antibacterial | |
| Anticancer | |
| Anticarcinogenic | |
| Antiedemic ED50 | |
| Antieicosanoid | |
| Antiinflammatory IC50=2.6 uM | |
| Antileukemic 15-30 uM | |
| Antileukotriene IC50=1.37 uM | |
| Antilipoperoxidant IC50=2 mg/L | |
| Antimutagenic ED50=4 uM | |
| Antioxidant IC50=2 mg/L | |
| Antioxidant 2 x Vit. E | |
| Antiperoxidant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| Antiproliferant | |
| Antiprostaglandin IC50=2.6 uM | |
| Antiradicular ED50=27 uM | |
| Antiseptic | |
| Antithrombic IC50=100 uM | |
| Antitumor | |
| Antitumor (Mammary) ED50=3.1 uM | |
| Antitumor (Prostate) 25 uM | |
| Antitumor (Skin) ID68=1 uM | |
| Antitumor (Skin) 5+ uM | |
| Apoptotic IC50=15-30 uM | |
| Artemicide | |
| Beta-Glucuronidase-Inhibitor IC50=~25 uM | |
| COX-1-Inhibitor ED50=15 uM | |
| COX-1-Inhibitor 50 uM/ | Jang, M. S., Pezzuto, J. M. 1998. Resveratrol Blocks Eicosanoid Production and Chemically-Induced Cellular Transformation: Implication for Cancer Chemoprevention. <i>Pharm Biol Suppl.</i> , 36: 28-34. |
| COX-2-Inhibitor 50 uM/ | |
| COX-2-Inhibitor 30 uM/ | Subbaramaiah, K., Michaluart, P., Chung, W. J., Dannenberg, A. J. 1998. Resveratrol Inhibits the Expression of Cyclooxygenase-2 in Human Mammary and Oral Epithelial Cells. <i>Pharm. Biol. Suppl.</i> , 36: 35-43. |
| COX-2-Inhibitor >2.5->22.5 uM | |
| CYP1A1-Inhibitor | |
| Cardioprotective | |
| Casein-Kinase-II-Inhibitor | |
| Chemopreventive | |
| Cyclooxygenase-Inhibitor IC50=15 uM | |
| Differentiator IC50=18 uM | |
| Elastase-Inhibitor IC50=37 uM | |
| Estrogenic 22% of genistein | |
| Fungicide | Chemical Constituents of Oriental Herbs (3 diff. books) |
| HIF-1alpha-Inhibitor | |
| Hepatoprotective | |
| Hydroperoxidase-Inhibitor | |
| Hypocholesterolemic | |
| Hypotriglyceridemic | Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| IKB-kinase-Inhibitor | |
| JNK-Inhibitor | |
| Lipolytic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| MAPK-Inhibitor | |
| NADH-Ubiuinone-Oxidoreductase-Inhibitor | |
| NF-kB-Inhibitor | |
| Ornithine-Decarboxylase-Inhibitor | |

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|----------------------------|--|
| PKD-Inhibitor | |
| PTK-Inhibitor | 110-263 uM |
| Pesticide | |
| Phytoalexin | |
| Quinone-Reductase-Inducer | |
| ED100=21 uM | |
| Topoisomerase-II-Inhibitor | Sun, N. J., Woo, S. H., Cassady, J. M., Snapka, R. M. 1998. DNA Polymerase and Topoisomerase II Inhibitors From <i>Psoralea corylifolia</i> . <i>J Natural Products</i> , 61: 362-366. |
| IC50=49 uM | |
| VEGF-Inhibitor | |

| | | | | | |
|---|---|---------|---------|------|---|
| RIBOFLAVIN | Fruit | 1.0 | 14.0 | 1.93 | * |
| Activities (15) | | | | | |
| AntiLyme 50 mg/day | | | | | |
| Antiarabiflavinotic 2-10 mg/day orl | Martindale's 28th | | | | |
| Anticarpal-Tunnel 50 mg/day | | | | | |
| Anticataract 15 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. | | | | |
| Anticephalagic | | | | | |
| Anticervicaldysplastic 1.6-10 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. | | | | |
| Anticheilitic | | | | | |
| Antidecubitic | | | | | |
| Antiglossitic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. | | | | |
| Antikeratitic | | | | | |
| Antimigraine | | | | | |
| Antioxidant | | | | | |
| Antipellagric | | | | | |
| Antiphotophobic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. | | | | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| RUTIN | Leaf | 20000.0 | 60000.0 | 2.72 | * |
| Activities (87) | | | | | |
| 5-HT-Inhibitor | | | | | |
| Aldehyde-Oxidase-Inhibitor IC27-52=10 uM | | | | | |
| Aldose-Reductase-Inhibitor 100 uM | | | | | |
| Aldose-Reductase-Inhibitor 4 ug/ml | Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. <i>Sankyo Kenkyusho Nempo</i> , 43: 99-110. | | | | |
| Allelochemic | | | | | |
| AntiCVI 270 mg/man/day | | | | | |
| Antiaggregant ED50=33 nmol/kg iv | | | | | |
| Antiallergic | | | | | |
| Antiapoplectic | | | | | |
| Antiatherogenic | | | | | |
| Antiatherosclerotic | | | | | |
| Antibacterial | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Anticancer | | | | | |
| Anticapillary-Fragility 20-100 mg orl man | Merck 7th Ed. | | | | |
| Anticataract | | | | | |
| Anticlastogen | | | | | |
| Anticonvulsant | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. | | | | |
| Antidementia | Bruneton, J. 1999. <i>Pharmacognosy, Phytochemistry, Medicinal Plants</i> . 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. | | | | |
| Antidermatitic | Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp. | | | | |
| Antidiabetic | Jin, G-Z., Yamagata, Y., and Tomita, K.-i. 1989. Structure of Rutin Pentamethanol. <i>Chem. Pharm. Bull.</i> 38(2): 297-300, 1990. | | | | |
| Antiedemic 270 mg/day orl man | | | | | |
| Antierythemic | | | | | |
| Antifeedant | | | | | |
| Antiglaucomic 60 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. | | | | |
| Antihematuric | | | | | |
| Antihemorrhoidal | | | | | |
| Antihepatotoxic | Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp. | | | | |
| Antiherpetic | Economic & Medicinal Plant Research, 5: 198. | | | | |
| Antihistaminic | | | | | |
| Antihypertensive | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. | | | | |
| Antiinflammatory 20 mg/kg | | | | | |

| | <i>Plasmodium falciparum</i> , Journal of Ethnopharmacology, 15, 201-209, 1980. |
|---|--|
| Antimelanomic | |
| Antimetastatic | |
| Antimutagenic IC50=2-5 nM | |
| Antinephritic | |
| Antinociceptive | |
| Antioxidant IC28=30 ppm | |
| Antioxidant IC50=120 uM | |
| Antioxidant IC54=10 uM | |
| Antiperoxidant IC50=10-20 uM | |
| Antiplatelet | |
| Antiproliferant 50-75 uM/l | |
| Antiprotozoal | |
| Antipurpuric | |
| Antiradicular 9 x quercetin | |
| Antispasmodic | |
| Antisunburn | |
| Antithrombotic EC50=500 nM | |
| Antithyroid IC50=68 uM | |
| Antitrypanosomic 100 mg/kg | Planta Medica, 57: A44, 1991. |
| Antitumor | |
| Antitumor-Promoter | |
| Antiulcer | |
| Antivaricose | |
| Antiviral | |
| Apoptotic 75 uM/l | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Capillaroprotective | Merck 11th Edition |
| Catabolic | |
| Chemopreventive | |
| Cytoprotective IC50=3 uM | |
| Estrogenic? | Economic & Medicinal Plant Research, 6: 189. |
| Hemostat | |
| Hepatomagenic 20,000 ppm (diet) rat | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507 ACS, Washington 402 pp. |
| Hepatoprotective 20 mg/kg rat | |
| Hypocholesterolemic | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Hypotensive | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Immunomodulator | |
| Insecticide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectiphile | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Juvabional | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Larvistat IC95=4,000-8,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Lipoxygenase-Inhibitor IC75=2.5 mM | Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. J. Agric. Food Chem. 38: 688-690. |
| Mutagenic | Economic & Medicinal Plant Research, 6: 189. |
| Myoprotective | |
| Myorelaxant | Economic & Medicinal Plant Research, 6: 189. |
| Oviposition-Stimulant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| PAF-Inhibitor | |
| Pesticide | |
| Protisticide | |
| Radioprotective | |
| Sunscreen | |
| Topoisomerase-II-Inhibitor IC50=1 ug/ml | Bernard, F. X., Sable, S., Cameron, B., Provost, J., Desnottes, J. F., Crouzet, J., Blanche, F. 1997. Glycosylated Flavones as Selective Inhibitors of Topoisomerase IV. Antimicrobial Agents & Chemotherapy, 41: 992-998. |
| Vasodilator | |
| Vasopressor | |
| cAMP-Phosphodiesterase-Inhibitor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |

RUTIN

Fruit

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|----------------------------|--|
| 5-HT-Inhibitor | |
| Aldehyde-Oxidase-Inhibitor | IC27-52=10 uM |
| Aldose-Reductase-Inhibitor | 100 uM |
| Aldose-Reductase-Inhibitor | 4 ug/ml Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. <i>Sankyo Kenkyusho Nempo</i> , 43: 99-110. |
| Allelochemical | |
| AntiCVI | 270 mg/man/day |
| Antiaggregant | ED50=33 nmol/kg iv |
| Antiallergic | |
| Antiapoplectic | |
| Antiatherogenic | |
| Antiatherosclerotic | |
| Antibacterial | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Anticancer | |
| Anticapillary-Fragility | 20-100 mg orl man Merck 7th Ed. |
| Anticataract | |
| Anticlastogen | |
| Anticonvulsant | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antidementia | Bruneton, J. 1999. <i>Pharmacognosy, Phytochemistry, Medicinal Plants</i> . 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| Antidermatitic | Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp. |
| Antidiabetic | Jin, G-Z., Yamagata, Y., and Tomita, K.-i. 1989. Structure of Rutin Pentamethanol. <i>Chem. Pharm. Bull.</i> 38(2): 297-300, 1990. |
| Antiedemic | 270 mg/day orl man |
| Antierhythmic | |
| Antifeedant | |
| Antiglaucomic | 60 mg/day Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antihematuric | |
| Antihemorrhoidal | |
| Antihepatotoxic | Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp. |
| Antiherpetic | Economic & Medicinal Plant Research, 5: 198. |
| Antihistaminic | |
| Antihypertensive | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antiinflammatory | 20 mg/kg |
| Antimalarial | IC50=>100 ug/ml Khalid, S.A., Farouk, A., Geary**, T.G., and Jensen, J.B. 1985. Potential Antimalarial Candidates From African Plants: An In Vitro Approach Using <i>Plasmodium falciparum</i> *. <i>Journal of Ethnopharmacology</i> , 15: 201-209, 1986. |
| Antimelanomic | |
| Antimetastatic | |
| Antimutagenic | ID50=2-5 nM |
| Antinephritic | |
| Antinociceptive | |
| Antioxidant | IC28=30 ppm |
| Antioxidant | IC50=120 uM |
| Antioxidant | IC54=10 uM |
| Antiperioxidant | IC50=10-20 uM |
| Antiplatelet | |
| Antiproliferant | 50-75 uM/l |
| Antiprotozoal | |
| Antipurpuric | |
| Antiradicular | 9 x quercetin |
| Antispasmodic | |
| Antisunburn | |
| Antithrombogenic | EC50=500 nM |
| Antithyroid | IC50=68 uM |
| Antitrypanosomal | 100 mg/kg Planta Medica, 57: A44, 1991. |
| Antitumor | |
| Antitumor-Promoter | |
| Antiulcer | |
| Antivaricose | |
| Antiviral | |
| Apoptotic | 75 uM/l |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Capillariprotective | Merck 11th Edition |

| | |
|---|--|
| Chemopreventive | |
| Cytoprotective IC50=3 uM | |
| Estrogenic? | Economic & Medicinal Plant Research, 6: 189. |
| Hemostat | |
| Hepatomagenic 20,000 ppm (diet) rat | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507 ACS, Washington 402 pp. |
| Hepatoprotective 20 mg/kg rat | |
| Hypocholesterolemic | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Hypotensive | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Immunomodulator | |
| Insecticide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectiphile | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Juvabional | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Larvistat IC95=4,000-8,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Lipoxygenase-Inhibitor IC75=2.5 mM | Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690. |
| Mutagenic | Economic & Medicinal Plant Research, 6: 189. |
| Myoprotective | |
| Myorelaxant | Economic & Medicinal Plant Research, 6: 189. |
| Oviposition-Stimulant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| PAF-Inhibitor | |
| Pesticide | |
| Protisticide | |
| Radioprotective | |
| Sunscreen | |
| Topoisomerase-II-Inhibitor IC50=1 ug/ml | Bernard, F. X., Sable, S., Cameron, B., Provost, J., Desnottes, J. F., Crouzet, J., Blanche, F. 1997. Glycosylated Flavones as Selective Inhibitors of Topoisomerase IV. <i>Antimicrobial Agents & Chemotherapy</i> , 41: 992-998. |
| Vasodilator | |
| Vasopressor | |
| cAMP-Phosphodiesterase-Inhibitor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |

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|---|--|----|----|---|
| SARCOSINE | Leaf | -- | -- | * |
| SCOPOLETIN | Leaf | -- | -- | * |
| Activities (44) | | | | |
| Aldose-Reductase-Inhibitor IC50=6.2 ug/ml cow | Okada,Y,et al.1995.Search for Naturally Occurring Substances to Prevent the Complications of Diabetes.II.Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation. <i>Chem Pharm Bull</i> 43(8):1385-1387 | | | |
| Allelochemical IC89=2 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. | | | |
| Analgesic | | | | |
| Anesthetic | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. | | | |
| Antiadrenergic | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. | | | |
| Antiaflatoxin IC50=65 uM | | | | |
| Antiaflatoxin 11.4 ppm | | | | |
| Antiarrhythmic | | | | |
| Antiasthmatic | | | | |
| Antibacterial | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antibronchoconstrictor | | | | |
| Anticholinergic | | | | |
| Antiedemic | | | | |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | | | |
| Antihepatotoxic | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. | | | |
| Antiinflammatory ED 1-10 ug/ear | | | | |
| Antileukotrienogenic | | | | |
| Antimutagenic | Mills, Simon and Bone, Kerry. 2000. Phytotherapy. Churchill Livinston, Edinburgh. | | | |
| Antioxidant | | | | |
| Antiproliferant | | | | |
| Antiprostaglandin | | | | |
| Antiseptic | | | | |
| Antispasmodic | | | | |
| Antitumor 2.9 ug/ml | | | | |
| Apoptotic | | | | |
| Bronchorelaxant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. | | | |

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|-------------------|---|
| CNS-Stimulant | Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cholagogue | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft mbH Stuttgart. 393 pp. |
| Choleretic | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Cytotoxic | |
| Fungicide 2 mM | |
| Hepatoprotective | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft mbH Stuttgart. 393 pp. |
| Herbicide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Hypoglycemic | Economic & Medicinal Plant Research, 6: 165 |
| Hypotensive | |
| MAO-Inhibitor | |
| Musculotropic | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft mbH Stuttgart. 393 pp. |
| Myorelaxant | |
| Pesticide | |
| Phytoalexin | |
| Phytohormonal | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Uterosedative | Williamson, E. M. and Evans, F. J. Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |

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|-------------------------------|--|----------|----------|------|---|
| SCOPOLIN | Leaf | -- | -- | -- | * |
| Activities (3) | | | | | |
| Anticholinergic | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. | | | | |
| Bronchorelaxant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. | | | | |
| CNS-Depressant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. | | | | |
| SILICA(SIO2) | Leaf | 18000.0 | 26000.0 | -- | * |
| SITOSTEROL | Root Bark | -- | -- | -- | * |
| SITOSTEROL-ALPHA-GLUCOSIDE | Root Bark | -- | -- | -- | * |
| SITOSTERYL-CAPRATE | Leaf | -- | -- | -- | * |
| SITOSTERYL-PALMITATE | Leaf | -- | -- | -- | * |
| SODIUM | Root Bark | 251.0 | 520.0 | 0.4 | * |
| Activities (1) | | | | | |
| Hypertensive | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| SODIUM | Fruit | 370.0 | 2467.0 | 0.05 | * |
| Activities (1) | | | | | |
| Hypertensive | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| SOLUBLE-SUGARS | Leaf | 122000.0 | 288000.0 | -- | * |
| STEARIC-ACID | Seed | -- | -- | -- | * |
| Activities (8) | | | | | |
| 5-Alpha-Reductase-Inhibitor | | | | | |
| Cosmetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| FLavor FEMA 2-4,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Hypocholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) | | | | |
| Lubricant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Propecic | | | | | |
| Suppository | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| STIGMAST-5-EN-3-BETA-OL-7-ONE | Tissue Culture | -- | -- | -- | * |
| SUCCINIC-ACID | Leaf | -- | -- | -- | * |
| Activities (7) | | | | | |
| Additive FEMA 200-2,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Antifeedant | | | | | |

| | |
|-------------------|---|
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Dye | Merck 11th Edition |
| Perfumery | Merck 11th Edition |
| Pesticide | |

| | | | | | |
|---|--|--------|--------|------|---|
| SULFUR | Leaf | 3000.0 | 5600.0 | 0.18 | * |
| Activities (14) | | | | | |
| Acarifuge | | | | | |
| Antiacne | Martindale's 29th | | | | |
| Antiarthritic | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antidandruff | Martindale's 29th | | | | |
| Antigrey | Martindale's 29th | | | | |
| Antioste oarthritis | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antiseborrheic | Martindale's 29th | | | | |
| Antiseptic | Martindale's 29th | | | | |
| Comedogenic | Martindale's 29th | | | | |
| Keratolytic | Martindale's 29th | | | | |
| Laxative | Martindale's 29th | | | | |
| Parasiticide | Martindale's 29th | | | | |
| Pesticide | | | | | |
| Scabicide | Martindale's 29th | | | | |
| TANNIN | Stem | -- | -- | -- | * |
| Activities (35) | | | | | |
| Anthelmintic | | | | | |
| AntiHIV | | | | | |
| Antibacterial | | | | | |
| Anticancer | | | | | |
| Anticariogenic | | | | | |
| Antidiarrheic | | | | | |
| Antidysenteric | | | | | |
| Ant hepatotoxic | | | | | |
| Antihypertensive | | | | | |
| Antilipolytic | | | | | |
| Antimutagenic | | | | | |
| Antinephritic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. | | | | |
| Antiofibidic | Economic & Medicinal Plant Research, 5: 363. | | | | |
| Antioxidant IC50=1.44 ug/ml | | | | | |
| Antioxidant 1/3 quercetin | | | | | |
| Antiradicular 500 mg/kg/day orl mus | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. | | | | |
| Antiradicular 1/3 quercetin | | | | | |
| Antirenitic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. | | | | |
| Antitumor | | | | | |
| Antitumor-Promoter | | | | | |
| Antiulcer | | | | | |
| Antiviral | | | | | |
| Cancer-Preventive | HerbalGram No. 22 - Spring 1990, page 14. | | | | |
| Carcinogenic | | | | | |
| Chelator | | | | | |
| Cyclooxygenase- Inhibitor | | | | | |
| Glucosyl- Transferase-Inhibitor | | | | | |
| Hepatoprotective | | | | | |
| Immunosuppressant | | | | | |
| Lipoxygenase- Inhibitor | | | | | |
| MAO-Inhibitor | | | | | |
| Ornithine- Decarboxylase- Inhibitor | | | | | |
| Pesticide | | | | | |
| Psychotropic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. | | | | |

TARTARIC-ACID

Leaf

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Activities (6)

| | |
|------------------------|--|
| Acidifier | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Additive | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Antioxidant | Martindale's 29th |
| Synergist | |
| FLavor FEMA 500-10,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Irritant | Zebowitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Sequestrant | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |

TETRAHYDROXYSTILBENE

Wood

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Activities (2)

| |
|-----------|
| Fungicide |
| Pesticide |

THIAMIN

Fruit

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2.0

-0.43

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Activities (31)

| | |
|----------------------------------|--|
| Analgesic 1-4 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| AntiLyme 50 mg | |
| Antialcoholic 50-100 mg/day | |
| Antialzheimeran 100-3,000 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antianorectic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antibackache 1-4 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiberiberi | |
| Anticanker | |
| Anticardiospasmic | |
| Anticataract | |
| Anticolitic | |
| Antidecubitic | |
| Antideliriant | |
| Antidementia | |
| Antidyspeptic | |
| Antiencephalopathic | Martindale's 29th |
| Antifatigue | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antigastritic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antihangover 50 mg | |
| Antiheartburn | |
| Antihelperic | |
| Antimigraine | |
| Antimyocarditic | |
| Antineuralogic 1-4 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antineurasthenic | |
| Antineuritic | |
| Antineuropathic 50 mg | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antipoliomyelic | |
| Insectifuge 75-150 mg/man/day | Martindale's 28th |
| Neuroprotective | |
| Pesticide | |

TRANS-5-HYDROXY-L-PIPECOLIC-ACID

Plant

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TRANS-BETA-GAMMA-HEXANOL

Plant

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TRIGONELLINE

Leaf

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Activities (15)

| | |
|---------------------|---|
| Anticancer (Cervix) | Williamson, E. M. and Evans, F. J. Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Anticancer (Liver) | Williamson, E. M. and Evans, F. J. Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Antihyperglycemic | Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp. |

| | |
|-----------------------------------|--|
| Antiseptic | Iwu, M.M. 1993. <i>Handbook of African Medicinal Plants</i> . CRC Press, Boca Raton, FL 435 pp. |
| Antitumor (Cervix) | |
| Antitumor (Liver) | |
| Epidermal-Stimulant | |
| Hypocholesterolemic | |
| Hypoglycemic 500-3,000 mg/man/day | Martindale's 28th |
| Hypoglycemic 50 mg/kg orl rat | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. |
| Mutagenic | |
| Osmoregulator | |
| Pesticide | |
| Propecic | |

| | | | | |
|---------------|-----------|----|----|---|
| UMBELLIFERONE | Root Bark | -- | -- | * |
|---------------|-----------|----|----|---|

Activities (22)

| | |
|---|---|
| Aldose-Reductase-Inhibitor IC50=4.8 ug/ml cow | Okada,Y,et al.1995.Search for Naturally Occurring Substances to Prevent the Complications of Diabetes.II.Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation.Chem Pharm Bull43(8):1385-1387 |
| Allelochemical IC94=2 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Antibacterial | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antiedemic | Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs</i> . Chapman & Hall, New York. 941 pp. |
| Antihistaminic | |
| Antiinflammatory | |
| Antimitotic 5-25 ug/ml | Gawron, A. and Glowniak, K. 1987. Cytostatic Activity of Coumarins in vitro. <i>Planta Medica</i> 1987: 526. |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antiprostaglandin | |
| Antiseptic | |
| Antispasmodic | |
| Antistaphylococcic | |
| Cancer-Preventive 5-25 ug/ml | Gawron, A. and Glowniak, K. 1987. Cytostatic Activity of Coumarins in vitro. <i>Planta Medica</i> 1987: 526. |
| Candidicide | |
| Choleretic | |
| Fungicide | Williamson, E. M. and Evans, F. J. <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Lipoxygenase-Inhibitor | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Photoactive | |
| Sunscreen | Merck 11th Edition |
| Xanthine-Oxidase-Inhibitor | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingston, Edinburgh. |

| | | | | |
|---------------|------|----|----|---|
| VALERALDEHYDE | Leaf | -- | -- | * |
|---------------|------|----|----|---|

| | | | | |
|--------------|-------|----|----|---|
| VALERIC-ACID | Plant | -- | -- | * |
|--------------|-------|----|----|---|

Activities (9)

| | |
|-----------------------|---|
| Antihysteric | Martindale's 28th |
| Antiinsomniac 1.2-2.4 | |
| Antispasmodic | |
| FLavor FEMA 1-8 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hypotensive | |
| Myorelaxant | |
| Perfumery | Merck 11th Edition |
| Sedative | |
| Tranquilizer | |

| | | | | | |
|-------|-------|----------|----------|------|---|
| WATER | Fruit | 850000.0 | 875000.0 | 0.45 | * |
|-------|-------|----------|----------|------|---|

| | | | | |
|-------------|------|----|----|---|
| XANTHOPHYLL | Leaf | -- | -- | * |
|-------------|------|----|----|---|

Activities (3)

| | |
|-------------|--|
| Bruchifuge | |
| Insectifuge | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Pesticide | |

| | | | | | |
|------|-----------|-----|------|-------|---|
| ZINC | Root Bark | 9.0 | 14.0 | -1.13 | * |
|------|-----------|-----|------|-------|---|

Activities (77)

| | |
|--|--|
| ACE-Inhibitor | |
| Analgesic | |
| AntiBPH 25-60 mg/day | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| AntiCrohn's | |
| AntiHIV | |
| Antiacne 135 mg/day | |
| Antiacrodermatitic 8-34 mg/day/orl/chd | Martindale's 29th |
| Antialcoholic | |
| Antialope cic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antialzheimeran 50 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antiangiogenic | |
| Antianorexic | Martindale's 29th |
| Antiarthritic 50 mg/3x/day/orl/man | |
| Anticanker 100 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Anticataract 30 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Anticoeliac | Martindale's 28th |
| Anticold 50 mg | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Anticolitic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Anticoronal 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antidandruff | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antidementia | |
| Antidiabetic 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antidote (Cadmium) | Let's Live, May 1989. |
| Antidysgeuzic | |
| Antieczemic 150 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antiencephalopathic | Martindale's 29th |
| Antiepileptic 100 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antifibrotic 30 mg | |
| Antifuruncular 45 mg/3x/day/man | Martindale's 28th |
| Antihangover 15 mg | |
| Antiherpetic? 25-60 mg/day | |
| Antiimpotence | Martindale's 29th |
| Antiinfective 50 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antiinfertility 60 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antilepric | Martindale's 29th |
| Antileukonychic | |
| Antilymphomeric | |
| Antimaculitic | |
| Antimetastatic | |
| Antineuropathic | |
| Antinyctalopic | |
| Antiobesity 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antosteoporotic | |
| Antiperiodontitic | |
| Antiplaque | Martindale's 29th |
| Antiprolactin | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiprostatic 50 mg/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antirheumatic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antiseptic 50 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antispare-Tire 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antistomatitic 50 mg/man/3x/day | Martindale's 28th |
| Antisyndrome-X 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antitinnitic 60-120 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antitriglyceride 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiuclcer 50 mg/3x/day/man | Martindale's 28th |
| Antiuclcer 88 mg/rat/day/15 days | |
| Antiviral? | Martindale's 29th |
| Astringent | Martindale's 28th |
| Collagenic | |

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| | insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Deodorant | Martindale's 29th |
| Detoxicant (Alcohol) | |
| Ergogenic | |
| Hypotensive 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Immunomodulator | |
| Immunostimulant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Immunosuppressant 300 mg/day/6 wks/orl/man | Martindale's 29th |
| Insulinogenic 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Leptogenic 30-60 mg/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Mucogenic | Li, K.M. Effect of zinc sulphate on acetic acid-induced gastric ulceration in rats. <i>J. Pharm. Pharmacol.</i> 42: 657-659, 1990. |
| NF-κB-Inhibitor | |
| Pesticide | |
| Spermigenic 60 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Testosteronogenic 60 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Trichomonicide | Martindale's 29th |
| Vulnerary | Martindale's 28th |